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OM protein - protein search, using sw model

Run on: February 27, 2005, 17:37:56 ; Search time 133 Seconds
(without alignments)
1107.455 Million cell updates/sec

Title: US-10-681-223-2

Perfect score: 2362

Sequence: 1 MAPARRLLRGPLSGPLGRK.....SREKVLQTVLSLQNSFSEP 449

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1385339 seqs, 328044528 residues

Total number of hits satisfying chosen parameters: 1385339

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*

- 1: /cgn2_6/prodata/1/pubpaa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/prodata/1/pubpaa/PCT_NEW_PUB.pep:*
- 3: /cgn2_6/prodata/1/pubpaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/prodata/1/pubpaa/US06_PUBCOMB.pep:*
- 5: /cgn2_6/prodata/1/pubpaa/US07_NEW_PUB.pep:*
- 6: /cgn2_6/prodata/1/pubpaa/PCTUS_PUBCOMB.pep:*
- 7: /cgn2_6/prodata/1/pubpaa/US08_NEW_PUB.pep:*
- 8: /cgn2_6/prodata/1/pubpaa/US08_PUBCOMB.pep:*
- 9: /cgn2_6/prodata/1/pubpaa/US09A_PUBCOMB.pep:*
- 10: /cgn2_6/prodata/1/pubpaa/US09B_PUBCOMB.pep:*
- 11: /cgn2_6/prodata/1/pubpaa/US09C_PUBCOMB.pep:*
- 12: /cgn2_6/prodata/1/pubpaa/US09_NEW_PUB.pep:*
- 13: /cgn2_6/prodata/1/pubpaa/US10_PUBCOMB.pep:*
- 14: /cgn2_6/prodata/1/pubpaa/US10_PUBCOMB.pep:*
- 15: /cgn2_6/prodata/1/pubpaa/US10C_PUBCOMB.pep:*
- 16: /cgn2_6/prodata/1/pubpaa/US10_PUBCOMB.pep:*
- 17: /cgn2_6/prodata/1/pubpaa/US10_NEW_PUB.pep:*
- 18: /cgn2_6/prodata/1/pubpaa/US11_NEW_PUB.pep:*
- 19: /cgn2_6/prodata/1/pubpaa/US60_NEW_PUB.pep:*
- 20: /cgn2_6/prodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2362	100.0	449	14	US-10-277-032-2
2	2362	100.0	449	15	US-10-681-223-2
3	795.5	33.7	508	14	US-10-277-032-4
4	795.5	33.7	508	15	US-10-681-223-4
5	155	5.9	196	15	US-10-369-493-911
6	140	5.6	243	15	US-10-282-122A-67367
7	131.5	5.6	199	15	US-10-282-122A-53917
8	128.5	5.4	205	15	US-10-369-493-11256
9	128.5	5.4	253	16	US-10-437-963-196428
10	127.5	5.4	205	15	US-10-369-493-21577
11	127	5.4	259	15	US-10-369-493-22800
12	126.5	5.4	263	15	US-10-425-114-64336
13	126	5.3	210	9	US-09-815-242-11037

14	126	5.3	210	15	US-10-282-122A-58176	Sequence 58176, A
15	125.5	5.3	205	15	US-10-369-493-1320	Sequence 1320, Ap
16	125.5	5.3	205	15	US-10-369-493-20385	Sequence 20385, A
17	125	5.3	212	15	US-10-282-122A-61591	Sequence 61591, A
18	124.5	5.2	212	15	US-10-282-122A-77370	Sequence 77370, A
19	122.5	5.2	1664	16	US-10-437-963-107768	Sequence 107768, A
20	121	5.1	980	14	US-10-156-761-11338	Sequence 11338, A
21	120	5.1	206	15	US-10-282-122A-50167	Sequence 50167, A
22	120	5.1	212	15	US-10-369-493-23045	Sequence 23045, A
23	118.5	5.0	188	15	US-10-369-493-21453	Sequence 21453, A
24	118.5	5.0	216	16	US-10-369-493-22188	Sequence 22188, A
25	118.5	5.0	216	16	US-10-754-929-3	Sequence 3, Appl1
26	118.5	5.0	1357	16	US-10-437-963-164009	Sequence 164009, A
27	118	5.0	193	15	US-10-369-493-18097	Sequence 18097, A
28	117.5	5.0	195	15	US-10-369-493-70	Sequence 70, Appl1
29	117.5	5.0	213	9	US-09-815-242-10129	Sequence 10129, A
30	117.5	5.0	213	15	US-10-369-493-797	Sequence 797, App
31	117.5	5.0	213	15	US-10-282-122A-56520	Sequence 56520, A
32	117.5	5.0	213	16	US-10-754-929-2	Sequence 2, Appl1
33	117.5	5.0	1750	16	US-10-437-963-194022	Sequence 194022, A
34	117	5.0	211	15	US-10-369-493-18331	Sequence 18331, A
35	116.5	4.9	213	15	US-10-282-122A-59458	Sequence 59458, A
36	116.5	4.9	218	15	US-10-369-493-5538	Sequence 5538, Ap
37	116	4.9	196	15	US-10-369-493-8559	Sequence 8559, Ap
38	115	4.9	206	15	US-10-282-122A-47929	Sequence 47929, A
39	114	4.8	1532	16	US-10-437-963-112468	Sequence 112468, A
40	113.5	4.8	210	15	US-10-369-493-286	Sequence 286, App
41	113	4.8	348	15	US-10-369-493-4190	Sequence 4190, Ap
42	112.5	4.8	201	15	US-10-369-493-4374	Sequence 4374, Ap
43	112.5	4.8	206	15	US-10-282-122A-49192	Sequence 49192, A
44	112.5	4.8	213	15	US-10-282-122A-55481	Sequence 55481, A
45	112.5	4.8	1753	16	US-10-437-963-107684	Sequence 107684, A

ALIGNMENTS

RESULT 1
US-10-277-032-2
; Sequence 2, Application US/10277032
; Publication No. US2003087294A1
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: C1001305 DIV
; CURRENT APPLICATION NUMBER: US/10/277,032
; CURRENT FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/984,880
; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 449
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-277-032-2

Query Match 100.0%; Score 2362; DB 14; Length 449;
Best Local Similarity 100.0%; Pred. No. 4, 2e-201;
Matches 449; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAPARRLLRGPLSGPLGRGVCAGAAPECFVLEIPDCTLAHPALGADAPDADAPD 60
1 MAPARRLLRGPLSGPLGRGVCAGAAPECFVLEIPDCTLAHPALGADAPDADAPD 60
DB 1 MAPARRLLRGPLSGPLGRGVCAGAAPECFVLEIPDCTLAHPALGADAPDADAPD 60
QY 61 RLAAALGPPRRSISLCVPTPDAGCGARVRAALHQRLLHQRGPFQRLRLCYCP 120
RLAAALGPPRRSISLCVPTPDAGCGARVRAALHQRLLHQRGPFQRLRLCYCP 120
DB 61 RLAAALGPPRRSISLCVPTPDAGCGARVRAALHQRLLHQRGPFQRLRLCYCP 120
QY 121 GGOAGAGGCGFLLRDPDDEPTQALLLELLGACGEAPRHIGFEEADPRGQLMORLWEVQ 180
GGOAGAGGCGFLLRDPDDEPTQALLLELLGACGEAPRHIGFEEADPRGQLMORLWEVQ 180

Db 121 GGQAGGAQGGFLRDLDDPTDPTQALLETLAGCQADPRPHLGEFADPRGLQWRMEVQ 180
Qy 181 DGRRLQVGCQAVVPPRPHVVDLPSSVVPFDRBAARAVLEECTSFIPPEARAVLDLV 240
Db 181 DGRRLQVGCQAVVPPRPHVVDLPSSVVPFDRBAARAVLEECTSFIPPEARAVLDLV 240
Qy 241 DQCPKQIQKGFQVVAIEGLDAGTKTQVTSVADSLKAVLLKSPSCIGQWRKIFDDEPT 300
Db 241 DQCPKQIQKGFQVVAIEGLDAGTKTQVTSVADSLKAVLLKSPSCIGQWRKIFDDEPT 300
Qy 301 IIRAFYSLGNVYVASEIAKESAKSPVIVDRYHSHATAVTAITEVSGGLQHLPPAHHPVY 360
Db 301 IIRAFYSLGNVYVASEIAKESAKSPVIVDRYHSHATAVTAITEVSGGLQHLPPAHHPVY 360
Qy 361 QWPEDLKPDLLILLTVSPERLQRLQGRGMKTRERAELEANSVFRQVENSQYRMENP 420
Db 361 QWPEDLKPDLLILLTVSPERLQRLQGRGMKTRERAELEANSVFRQVENSQYRMENP 420
Qy 421 GCHVVDASPSREKVLQTVLSLQNSFSEP 449
Db 421 GCHVVDASPSREKVLQTVLSLQNSFSEP 449

RESULT 2

US-10-681-223-2
; Sequence 2, Application US/10681223
; Publication No. US20040081999A1
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: CL001305 DIV-II
; CURRENT FILING DATE: 2003-10-09
; PRIOR APPLICATION NUMBER: US/10/681,223
; PRIOR FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/984,880
; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 449
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-681-223-2

Query Match 100.0%; Score 2362; DB 15; Length 449;
Best Local Similarity 100.0%; Pred. No. 4, 2e-201;
Matches 449; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MAFARLLNGPLSGPLGRGVGAGAMAPPCRFVLELPDCTLAHFALGADAPGDADAPRP 60
Db 1 MAFARLLNGPLSGPLGRGVGAGAMAPPCRFVLELPDCTLAHFALGADAPGDADAPRP 60
Qy 61 RLALALGPBERSYSLCVPTTPDAGCGARYAARLHQRLLHQRGRFQRCQLRLCYCP 120
Db 61 RLALALGPBERSYSLCVPTTPDAGCGARYAARLHQRLLHQRGRFQRCQLRLCYCP 120
Qy 121 GGOAGAGQGGFLLRDLDDPTDPTQALLETLAGCQADPRPHLGEFADPRGLQWRMEVQ 180
Db 121 GGOAGAGQGGFLLRDLDDPTDPTQALLETLAGCQADPRPHLGEFADPRGLQWRMEVQ 180
Qy 181 DGRRLQVGCQAVVPPRPHVVDLPSSVVPFDRBAARAVLEECTSFIPPEARAVLDLV 240
Db 181 DGRRLQVGCQAVVPPRPHVVDLPSSVVPFDRBAARAVLEECTSFIPPEARAVLDLV 240
Qy 241 DQCPKQIQKGFQVVAIEGLDAGTKTQVTSVADSLKAVLLKSPSCIGQWRKIFDDEPT 300
Db 241 DQCPKQIQKGFQVVAIEGLDAGTKTQVTSVADSLKAVLLKSPSCIGQWRKIFDDEPT 300
Qy 301 IIRAFYSLGNVYVASEIAKESAKSPVIVDRYHSHATAVTAITEVSGGLQHLPPAHHPVY 360
Db 301 IIRAFYSLGNVYVASEIAKESAKSPVIVDRYHSHATAVTAITEVSGGLQHLPPAHHPVY 360

Db 301 IIRAFYSLGNVYVASEIAKESAKSPVIVDRYHSHATAVTAITEVSGGLQHLPPAHHPVY 360
Qy 361 QWPEDLKPDLLILLTVSPERLQRLQGRGMKTRERAELEANSVFRQVENSQYRMENP 420
Db 361 QWPEDLKPDLLILLTVSPERLQRLQGRGMKTRERAELEANSVFRQVENSQYRMENP 420
Qy 421 GCHVVDASPSREKVLQTVLSLQNSFSEP 449
Db 421 GCHVVDASPSREKVLQTVLSLQNSFSEP 449

RESULT 3

US-10-277-032-4
; Sequence 4, Application US/10277032
; Publication No. US20030087294A1
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: CL001305 DIV
; CURRENT FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: US/10/277,032
; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 508
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-277-032-4

Query Match 33.7%; Score 795.5; DB 14; Length 508;
Best Local Similarity 48.1%; Pred. No. 9, 8e-62;
Matches 177; Conservative 0; Mismatches 4; Indels 187; Gaps 2;

Qy 225 ECTSFIPBARAVLDLVDCPKQIQKGFQVVAIEGLDAGTKTQVTSVADSLKAVLLKSP 284
Db 1 ECTSFIPBARAVLDLVDCPKQIQKGFQVVAIEGLDAGTKTQVTSVADSLKAVLLKSP 60
Qy 285 ----- 284
Db 61 CTSFIPBARAVLDLVDCPKQIQKGFQVVAIEGLDAGTKTQOCTSFIPBARAVLDLVDC 120
Qy 285 -----PSCIGQWRKIFDDEPTIIR 303
Db 121 PKVQKGFQVVAIEGLDAGTKTTLTOHFKSLSRLSYSRHPSCIGQWRKIFDDEPTIIR 180
Qy 304 RAFPYSLGNVYVASEIAKESAKSPVIVDRYHSHATAVTAITEVSGGLQHLPPAHHPVY 325
Db 181 RAFPYSLGNVYVASEIAKESAKSPVIVDRYHSHATAVTAITEVSGGLQHLPPAHHPVY 240
Qy 326 -----PVIVDRYHSHATA 337
Db 241 HSTATYPCIKPVEEDLLMNLSPFEPFILMANYLVASEIAKESATNPFVIVDRYHSHATA 300
Qy 338 TYAATYVSGGLQHLPPAHHPVYQWPEDLKPDLLILLTVSPERLQRLQGRGMKTRER 397
Db 301 TYAATYVSGGLQHLPPAHHPVYQWPEDLKPDLLILLTVSPERLQRLQGRGMKTRER 360
Qy 398 AELBANSV 405
Db 361 AELATATRV 368

RESULT 4

US-10-681-223-4
; Sequence 4, Application US/10681223
; Publication No. US20040081999A1
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC

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: TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
: FILE OF INVENTION: THEBOP
: FILE REFERENCE: CL001305 DIV-II
: CURRENT APPLICATION NUMBER: US/10/681,223
: CURRENT FILING DATE: 2003-10-09
: PRIOR APPLICATION NUMBER: 10/277,032
: PRIOR FILING DATE: 2002-10-22
: PRIOR APPLICATION NUMBER: 09/964,880
: PRIOR FILING DATE: 2001-10-31
: NUMBER OF SEQ ID NOS: 4
: SOFTWARE: FaSTSeq for Windows Version 4.0
: SEQ ID NO 4
: LENGTH: 508
: TYPE: PRT
: ORGANISM: Homo sapiens
US-10-681-223-4

Query Match      33.7%; Score 795.5; DB 15; Length 508;
Beet Local Similarity 48.1%; Pred. No. 9.8e-62;
Matches 177; Conservative 0; Mismatches 4; Indels 187; Gaps 2;

QY      225  ECTSFIEARAVLDVLDQCPRKIQKGFQVAIEGLDATGKTTVQSVADSLKAVLLKSP 284
Db      1    ECTSFIEARAVLDVLDQCPRKIQKGFQVAIEGLDATGKTTVQSVADSLKAVLLKSP 60
QY      285  ----- 284
Db      61  CTSTFIPARAVLDVLDQCPRKQKGFQVAIEGLDATGKTTQCTSFIEARAVLDVLDQC 120
QY      285  ----- 284
Db      121  PKEVQKKPFQVAIEGLDATGKTTLQHFKSLRLSSYSHPSCTIQMKRIFDDEPTIIR 180
QY      304  RAFTSLGNTYVASEIAKESAKS-----PCIGQWRKIIPDEPTIIR 303
Db      181  RAFTSLGNTYVASEIAKESAKSPVIYDRYVHSTATYPCIKFNVASEIAKESPVYDRYV 240
QY      326  ----- 337
Db      241  HSTATYPCIKFVEEDLLMNLISFEERFILMANYVASEIAKESITNPFVIYDRYVHSTA 300
QY      338  TYAATVSGGLQHLPRAHHPVQWPEDLKLPDLILLTQSPERLQLOGRGEMKTRRE 397
Db      301  TYAATVSGGLQHLPRAHHPVQWPEDLKLPDLILLTQSPERLQLOGRGEMKTRRE 360
QY      398  AELEANSV 405
Db      361  AEAIATEV 368

RESULT 5
US-10-369-493-911
: Sequence 911, Application US/10369493
: Publication No. US20030233675A1
: GENERAL INFORMATION:
: APPLICANT: Cao, Yongwei
: APPLICANT: Hinkle, Gregory J.
: APPLICANT: Slater, Steven C.
: APPLICANT: Goldman, Barry S.
: APPLICANT: Chen, Xianfeng
: TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
: FILE REFERENCE: 38-10(52052)B
: CURRENT APPLICATION NUMBER: US/10/369,493
: CURRENT FILING DATE: 2003-02-28
: PRIOR APPLICATION NUMBER: US 60/360,039
: PRIOR FILING DATE: 2002-02-21
: NUMBER OF SEQ ID NOS: 47374
: SEQ ID NO 911
: LENGTH: 196
: TYPE: PRT
: ORGANISM: Archaeoglobus fulgidus
US-10-369-493-911

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Query Match      6.6%; Score 155; DB 15; Length 196;
Best Local Similarity 28.6%; Pred. No. 2.3e-05;
Matches 61; Conservative 37; Mismatches 75; Indels 40; Gaps 10;

Oy      254 VAIEGLDAGTAKTTVTGVSADSL-----KAVLLKSP-PSCIGQWRKI FDEPPTIIRAPY 307
          ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db       2 LIAVEGDIGAGKTTIAAYIAELLKEKGYYKKVLLKEPDSSKFG--KKIKSBERLSPEEL 59
Oy      308 SLGVNYIASSEI-AKES-----AKSPIYDRYRHSTTYAIATVSGLOLHPAHHPY 360
          ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db       60 EL--FLMDREIDAEENLTPLAQSGYAAVMDBRYFNSNIAYSARCIDARL-----IR 108
Oy      361 QWPEDL-KPDIILLTVSPERLQRLOGEMKTRBEALEANSVPROKVMSYOMEN 419
          ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db      109 ENNEKIPKPDUTLLDVEEPIALERVKRGGKLSPEFKLD-----YLRKYKCFLENAD 162
Oy      420 PGCHVDASPSRE-----KVLQTVLSLIQNS 445
          |||||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db     163 ETVVVDASKPLBEVKEEVKRVIIESFLNLKNIS 195

RESULT 6
US-10-282-122A-67367
; Sequence 67367, Application US/10282122A
; Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Habelbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zykkind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Tawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITTA.034A
CURRENT APPLICATION NUMBER: US/10/282.122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Seq Application data removed - See File Wrapper or PAMM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 67367
LENGTH: 243
TYPE: PRF
ORGANISM: Pasteurella multocida
US-10-282-122A-67367

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Best Local Similarity 27.6%; Pred. No. 0.00066;
Matches 59; Conservative 32; Mismatches 89; Indels 34; Gaps 10;
QY 250 GKFOVVAIEGIDAGKTTTQSVADSLKA-----VLKSPSC-----IGQWRKIPDDE 298
Db 38 GKF--IVLEGIEGAGKTARSDISVRAALHAGIHDIIVFRREGGTPPLAKRLQLKHEE 95
QY 299 PTIR--AFYSGNTYVASEIAKESAKSP-VVDYVWSTATATYATATEVSGGLQHLPP 354
Db 96 PVTGKALMLMYARIQLVENVYIKPALAQKRWVIGDRHDMSSQAY-----QGGRQLD- 148
QY 355 AAHPVYOWPEDLT---KPDLLILLTVSPEERLQRLQGRGMEKTEEALEANSVFRQVE 411
Db 149 -QHLLHTLKQTTILGEFEDLTLYVDIDPVYGLSPAKRGALDRHQND-----FFHRT 203
QY 412 MSYGRM--ENPGCHVVDASPEREVLQTVLSLIQ 443
Db 204 QRYQELVHNPKAVTIDASQTMKVDVESAIR 237

RESULT 7

US-10-282-122A-53917
Sequence 53917; Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Karl
APPLICANT: Zykkind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See file wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 53917
LENGTH: 205
TYPE: PRT
ORGANISM: *Corynebacterium diptheriae*
US-10-282-122A-53917

Query Match 5.6%; Score 131.5; DB 15; Length 205;
Best Local Similarity 22.4%; Pred. No. 0.003;
Matches 51; Conservative 39; Mismatches 69; Indels 69; Gaps 9;

QY 254 VVAIEGIDAGKTTTQSVADSLKAVLKSPPSCIGQWRKIPDEPTIRRAFY----- 308
Db 2 IIAIEGIDAGKNTLVSAIKERPDADVIGF-----RYEQS IHAKLAQRLYSGMDL 54
QY 309 -----LGNIVASEIAKESAKSPVIYDRVWSTATATATEVSG 347
Db 55 TDSAYMATLFDLDRYDAKAVIGRYVGTSKV-----VLDRYVANSAAVSAAR----- 102
QY 348 GLQHLPPAAHPVYOWPED-----LKPDLLILLTVSPEERLQRLQ-----GRGMEK 393
Db 103 -----TRDANVQWQELFEFELGPVVDHILLHTSELAQRAQRRATDASKLDR 156
QY 394 TREAELEANSVFRQKENSYGKMPNPGCHV-VDASPS--REKVLQTV 438
Db 157 YERDAGLQERT-FOAVESIAQOKMNSPWLIVHPDESPTVTGRIITQAL 203

RESULT 8

US-10-369-493-11256
Sequence 11256; Application US/10369493
Publication No. US20030233675A1
GENERAL INFORMATION:
APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
FILE REFERENCE: 38-10(52052) B
CURRENT APPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 11256
LENGTH: 199
TYPE: PRT
ORGANISM: *Methanosaarcina mazei*
US-10-369-493-11256

Query Match 5.4%; Score 128.5; DB 15; Length 199;
Best Local Similarity 26.0%; Pred. No. 0.0053;
Matches 58; Conservative 39; Mismatches 71; Indels 55; Gaps 12;

QY 249 GKFOVVAIEGIDAGKTTTQSVADSLKAVLKSPPSCIGQWRKIPDEPT-----I 301
Db 1 GKF--LITLEGIDSGKSTVAEK-----LQNPB--IKAFPVFRFETTRGTLGDA 48
QY 302 IRRAFYSGN-----YIVASEIAKESAK-----SPVVDYVWSTATATATEVSG 347
Db 49 VEKAIQSDTDQFAELFETADHAHHLAKLKPALENGKIVISDRYSRYAYQ----- 101
QY 348 GLQHLPPAAHPVYOWPEDLT-----LKPDLLILLTVSPEERLQRLQGRGMEKTEEALEA 402
Db 102 GITLKTRENL-EMVVDLHMSWTIVPDLTLPFIRREBISIERGCKGQSGKFEKLE--- 157
QY 403 NSVFRQKENSYGKMPNPGCHV-DASPEREVLQTVLSLI 442
Db 158 ---FLOGVRAIFLKLADDDPERFVVIDASRSPEYIEKEVYK 197

RESULT 9

US-10-437-963-196428
Sequence 196428; Application US/10437963
Publication No. US20040123343A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei

```

Query Match 5.4% Score 127.5; DB 15; Length 205;
Best Local Similarity 22.7%; Pred No. 0.0068;
Matches 52; Conservative 43; Mismatches 71; Indels 63; Gaps 9

Qy 249 KGRQVAIEGIDATGKTTTTSQVADSLKAVLKSPSCIGWRKIPDEPT-----II 302
Db 2 RGYF--VVEEGIDSGKTTQAKLAEWEE-----QGMVDILTKPEPTDFGRRI 49

```

	Query Match	5.4%;	Score 127;	DB 15,	Length 259;		
	Best Local Similarity	22.3%;	Pred. No.	0.01;			
	Matches	60;	Conservative	42;	Mismatches	73;	
				Indels	94;	Gaps	13
Oy	248 OKGFOVAIEGLATGKTVTQSVASL-----KAVLTKEP-----	284					
Dd	3 KÖNRGRILVIEGLDRSGKSTOCQLVDKLISQHKAELFKPGKSFGPLADLVTPTRX	62					
Oy	285 --PSGIQWRKIPD-----DEPTIRRAFYSLNGYIVASEIAKESAKS--PYIVDRY	332					
Dd	63 DRTAIG--KKIDDLKESVOLNQ---VIHLFSARWETIQYIYEBINKGVTCILDRY	117					
Oy	333 WHSTATYAIA-----TEVSGILOHLPRAHPVYQW----	362					
Dd	118 AFSGISASAQVILSPLGXFVNVRRLRIXTLYEVETNIKGDL-----WEWKCS	168					
Oy	363 -PEULRPLDLLITVSPEERLOLRQGMEKTEEAALNANSVFROKVMSYOQME---	418					
Dd	169 PDRLCPRPDIIVFLNVDP--RIAATRCQGEERYEKIEMQ-----EKLKNFORLOKEF	220					
Oy	419 -NPGCHVV--DASPSEKVLQTVLSLQN	444					
Dd	221 REBGLERTLDASSSLDVHSQIDLVSN	249					

RESULT 12
US-10-425-114-64336
; Sequence 64336, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION
; APPLICANT: Liu, Jingdong

```

; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425.114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 64336
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3632-055-C3_FLI.pep
US-10-425-114-64336
```

```

Query Match          5.4%; Score 126.5; DB 15; Length 263;
Best Local Similarity 25.5%; Pred. No. 0.012;
Matches 60; Conservative 34; Mismatches 70; Indels 71; Gaps 13;

QY 250 KGFVVAIEGIDATGKTTVQSVADSLKAVLAKSPSCIGQWRKTFDDEPTIIRAFYSL 309
    | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 59 GRGALVVLGIDRGKTSQCARLISFLKGGYNAE-----GWR--FPDRAT-----SV 104
    | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 310 GNYVASEIKES-----AKSPVYDRWHSATATYATA 342
    | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 105 GQ-MISSYLANDSGLDRTTHLFSANRWEKRALMSKLSGTTLLVDRYSYS-----GVA 159
    | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 343 TEVSGSLQHLPPAHHPYQW---PED-TLKPDLILTVSPERLQRLQGRGMEKTRREA 398
    | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 160 FSAKGLD-----IEWCKAPENGLIAPDLVTVDPKKAER-GGYGER-YEKI 208
    | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 399 ELEANSYVRKQVEMSYQRMENPGCHVYDA-----SPSRKYLQTVLSLIONSFSP 449
    | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 209 E-----FQKKVAHEHSHLRDSTWVKVDGFLPMETVEYERKLRDLATSCIDQCQNP 257
    | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
```

```

RESULT 13
; US-09-815-242-11027
; Sequence 11027, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Habelbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zysek, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: Elittra.011a
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11027
; LENGTH: 210
; TYPE: PRT
; ORGANISM: Haemophilus influenzae
US-09-815-242-11027
```

```

Query Match          5.3%; Score 126; DB 9; Length 210;
Best Local Similarity 26.1%; Pred. No. 0.0095;
Matches 57; Conservative 32; Mismatches 91; Indels 38; Gaps 10;
```

```

QY 249 KKEGVVAIEGIDATGKTTVQSVADSL-----KAVLKSPSC-----IGQWRKITDD 297
    | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 2 KGRF--YVIEGLEGAKSSAHQS VVRVHLEIGIDQVVFTRFEGTPLAEKRLH LKHETE 59
    | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 298 EPTIIRAFYSIGNYIVASEIKESAKSP-----VVDRYWHSATATYATAITEVSGGLQH 351
    | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 60 EPTDKALMLM--YAAHQLQVENYIKPALMQKKVVDGRHDMSQAY-----OGGGRQ 111
    | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 352 LPPAHHPYQWPEDL---KPDILILTVSPERLQRLQGRGMEKTRREAELEANSVPRQ 408
    | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 112 LDP--HFMLTLKETVIGNFEEDLTIYLDIDPSVGIAFARGGELDRIRQMDLD-----FFH 165
    | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 409 KYEMSYQRM--ENPGCHVYDASPSRKYLQTVLSLION 444
    | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 166 KTRARYLELVKDNPKAVVYINAEQSTELVQADIESAVKN 203
    | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
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```

RESULT 14
; US-10-282-122A-58176
; Sequence 58176, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Habelbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zysek, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: Elittra.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 58176
```

```

; LENGTH: 210
;
; TYPE: PRT
; ORGANISM: Haemophilus influenzae
US-10-282-122A-58176

```

Query Match	5.3%	Score 126;	DB 15;	Length 210;
Best Local Similarity	26.1%;	Pred. No. 0.0095;		
Matches 57;	Conservative 32;	Mismatches 91;	Indels 38;	Gaps 10

```

QY      244 KGFQVAALEGDQATKTTVTQVADSL-----KAVLLKSPSC-----IGWRKIPFD 297
DQ      2   KGRF--IVTEGLEGAGKSSAHOSVAVRVLHELGIQDVLPFRREGGCPPLAEKRLHILKETE 59
QY      298 EPTIIRAFYSLGNTIVASEIAKESASP-----VIVDRYHSTATYATAITEVSGLOH 351
DQ      60 EPYTDRAEILLML--YAARIQIVENVIKPAIMQGNVVDGRHMSSQAI-----QGGRQ 111
QY      352 LPRAHHFVQVMPEDLL--KPDILLILTVSPERLQRLQGRMKTREAEALANSVFRQ 405
DQ      112 LDE--HFMTLTKETVIGNEPEDIITYLIDIPSVGLARARGELDRIRIQMDL-----FFH 165
QY      409 KYEMSYQRM--ENPGCHVVDASPREKVLQTVLSLION 444
DQ      166 KIPARIYELVKQNPKAIVINAEOSIELVQADIESAVKN 203

```

```

RESULT 15
US-10-369-493-1320
; Sequence 1320 Application US/10369493
; Publication No US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 1320
; LENGTH: 205
; TYPE: prt
; ORGANISM: Pyrococcus horikoshii
; US-10-369-493-1320

```

Query Match	5.3%	Score 125.5;	DB 15;	Length 205;
Best Local Similarity	23.3%	Pred. No. 0.01;		
Matches 53; Conservative	44;	Mismatches 71;	Indels 59;	Gaps 10;

```

QY      244 KGEQVVALEGDAGTAKTIVTQSVAD-----SLKVVLLKSP-PGICGM-KRIDDEPTI 300
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      2  KGF--TVIEGIDGSGKTQAKTLAEFWEDKGYEALLTEPDSLGKLRIRIIIESVI 59
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      302 I--RAAFYSLGNVIVASEIAKESAK-----SPVIYDRVYHSPATAIATEVSGIQH 351
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      60 DSGKISYBAEALLPADRAEHVKKIIPALSRGKVICDRIFYSL----- 105
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      352 LPPAHHPTVQWPEDL-----LKPDILILLTVSPERRLOLOGRMKTRBAAE 399
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      106 -----AYQMARGLDINMLIQVNSFAPPDPDAIILLDPVESLSRIKLRG-----TLTE 153
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      400 LEANSVFQKQVENSQYQRMEN--PGCHVVDNAPSREKVLQTVLSIQN 444
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      154 FDIYVELQKRVNRNYIKLAEPMPEKRIIVAAISSIEDIHSDIVAAKYH 200
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

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GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: February 27, 2005, 17:36:15 ; Search time 43 Seconds
(without alignments)
779.475 Million cell updates/sec

Title: US-10-681-223-2

Perfect score: 2362

Sequence: 1 MAFARLLRGPLSGPLGRG.....SREKVLQTVLSLQNSRSEP 449

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/PCTUS.COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2362	100.0	449	US-09-984-880-2	Sequence 2, Appl1
2	2362	100.0	449	US-10-277-032-2	Sequence 2, Appl1
3	795.5	33.7	508	US-09-984-880-4	Sequence 4, Appl1
4	795.5	33.7	508	US-10-277-032-4	Sequence 4, Appl1
5	129.5	5.5	956	US-09-252-991A-28002	Sequence 28002, A
6	118.5	5.0	216	US-09-632-553-3	Sequence 3, Appl1
7	118	5.0	681	US-09-252-991A-25690	Sequence 25690, A
8	117.5	5.0	213	US-09-632-553-2	Sequence 2, Appl1
9	117.5	5.0	219	US-09-489-039A-7540	Sequence 7540, Ap
10	115	4.9	925	US-09-902-540-15299	Sequence 15299, A
11	110.5	4.7	1646	US-09-902-540-15011	Sequence 15011, A
12	109	4.6	218	US-09-107-433-3820	Sequence 3820, Ap
13	109	4.6	955	US-09-252-991A-24254	Sequence 24254, A
14	108.5	4.6	615	US-09-252-991A-25642	Sequence 25642, A
15	107	4.5	212	US-09-259-109-2	Sequence 2, Appl1
16	107	4.5	212	US-09-583-110-5141	Sequence 5141, Ap
17	107	4.5	2294	US-09-252-991A-17231	Sequence 17231, A
18	106	4.5	1427	US-09-252-991A-20577	Sequence 20577, A
19	105.5	4.5	204	US-09-134-001C-3311	Sequence 3311, Ap
20	105.5	4.5	388	US-09-252-991A-21572	Sequence 21572, A
21	105.5	4.5	564	US-09-252-991A-25356	Sequence 25356, A
22	105	4.4	444	US-09-252-991A-27505	Sequence 27505, A
23	104.5	4.4	1665	US-09-858-664A-2	Sequence 2, Appl1
24	104.5	4.4	1665	US-10-274-978-2	Sequence 2, Appl1
25	104.5	4.4	1665	US-10-697-263-2	Sequence 2, Appl1
26	104	4.4	494	US-09-252-991A-23320	Sequence 23320, A
27	104	4.4	1067	US-09-252-991A-30526	Sequence 30526, A

28	104	4.4	1544	3	US-09-413-814-46	Sequence 46, Appl1
29	103.5	4.4	582	4	US-09-252-991A-25366	Sequence 25366, A
30	103.5	4.4	751	4	US-10-020-079-8	Sequence 8, Appl1
31	103.5	4.4	764	4	US-10-020-079-6	Sequence 6, Appl1
32	103.5	4.4	864	4	US-10-020-079-4	Sequence 4, Appl1
33	103.5	4.4	870	4	US-10-020-079-2	Sequence 2, Appl1
34	102.5	4.3	1190	4	US-09-902-540-12293	Sequence 12293, A
35	102	4.3	226	4	US-09-949-016-8122	Sequence 8122, Ap
36	101.5	4.3	414	4	US-09-252-991A-30034	Sequence 30034, A
37	101.5	4.3	1343	4	US-09-171-991-2	Sequence 2, Appl1
38	101	4.3	337	4	US-09-252-991A-31851	Sequence 31851, A
39	100.5	4.3	305	4	US-09-252-991A-20357	Sequence 20357, A
40	100.5	4.3	432	4	US-09-252-991A-30625	Sequence 30625, A
41	100	4.2	280	4	US-09-252-991A-32145	Sequence 32145, A
42	100	4.2	605	4	US-09-252-991A-25512	Sequence 25512, A
43	99.5	4.2	227	4	US-09-543-681A-7769	Sequence 7769, Ap
44	99.5	4.2	435	4	US-09-252-991A-24702	Sequence 24702, A
45	99.5	4.2	507	4	US-09-252-991A-17308	Sequence 17308, A

ALIGNMENTS

RESULT 1						
US-09-984-880-2						
; Sequence 2, Application US/09984880						
; Patent No. 6489133						
; GENERAL INFORMATION:						
; APPLICANT: Ming-Hui						
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC						
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES						
; FILE REFERENCE: C1001305						
; CURRENT APPLICATION NUMBER: US/09/984,880						
; CURRENT FILING DATE: 2001-10-31						
; NUMBER OF SEQ ID NOS: 4						
; SOFTWARE: FastSeq for Windows Version 4.0						
; SEQ ID NO 2						
; LENGTH: 449						
; TYPE: PRT						
; ORGANISM: Homo sapien						
US-09-984-880-2						
Query Match						
Best Local Similarity 100.0%; Score 2362; DB 4; Length 449;						
Matches 449; Conservative 0; Mismatches 0; Indels 0; Gaps 0;						
QY	1	MAFARLLRGPLSGPLGRGVCAGAMAPRCFVLSLPDCTLAHPALGADAPDADP	60			
DB	1	MAFARLLRGPLSGPLGRGVCAGAMAPRCFVLSLPDCTLAHPALGADAPDADP	60			
QY	61	RLAALIGPERSYSTLCVPTPDAGCGARVBAARLHQLRRGFQRCQLRLCYCP	120			
DB	61	RLAALIGPERSYSTLCVPTPDAGCGARVBAARLHQLRRGFQRCQLRLCYCP	120			
QY	121	GGAGAGAGCGFLRDPDLDPTDQALIELLGAQCAPRPLGFEADPRQQLQRLMEVQ	180			
DB	121	GGAGAGAGCGFLRDPDLDPTDQALIELLGAQCAPRPLGFEADPRQQLQRLMEVQ	180			
QY	181	DGRRLQVGCQVVPVEPPPLHPVPDLPSSVFPDEARAVALEBCTSFPEARAVLDLV	240			
DB	181	DGRRLQVGCQVVPVEPPPLHPVPDLPSSVFPDEARAVALEBCTSFPEARAVLDLV	240			
QY	241	DQCPKQIQKGFQVVAIEGLDAGTKTTVQSVADSLKAVLLKSPSCIGQWRKIFDEPT	300			
DB	241	DQCPKQIQKGFQVVAIEGLDAGTKTTVQSVADSLKAVLLKSPSCIGQWRKIFDEPT	300			
QY	301	IIRRAFSISGNTVVAEIAEAKSPVYVDRVHSTRTVYLAIEVGGGLPPAHHPVY	360			
DB	301	IIRRAFSISGNTVVAEIAEAKSPVYVDRVHSTRTVYLAIEVGGGLPPAHHPVY	360			
QY	361	QMPEDLLKPLDILLTLVSPREERQRLQGRGMEKTRAEAELEANSVFRQKEMSGYRMENP	420			
DB	361	QMPEDLLKPLDILLTLVSPREERQRLQGRGMEKTRAEAELEANSVFRQKEMSGYRMENP	420			

Db 361 QWPEDLKPDLLLTVSPEERLQRLQGRGMEKTREREAELEANSVFRQKVMYSQRMENP 420
QY 421 GCHVDASPSREKVLQTVLSLTONSFSEP 449
Db 421 GCHVDASPSREKVLQTVLSLTONSFSEP 449

RESULT 2
US-10-277-032-2
; Sequence 2, Application US/10277032
; Patent No. 6664087
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: C1001305 DIV
; CURRENT APPLICATION NUMBER: US/10/277,032
; CURRENT FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/984,880
; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 449
; TYPE: PRT
; ORGANISM: HomoSapien
US-10-277-032-2

Query Match 100.0%; Score 2362; DB 4; Length 449;
Best Local Similarity 100.0%; Pred. No. 2.5e-232;
Matches 449; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAFARRLRGPPLSGPLGRGVCAGAWAPCRFVLELDPCTLAHPALGADAPDADAPD 60
Db 1 MAFARRLRGPPLSGPLGRGVCAGAWAPCRFVLELDPCTLAHPALGADAPDADAPD 60
QY 61 FLAALIGPPERSYSLCVPTPDAGCGARVAAHLHQLHQLRRGFQRCQLRLCYCP 120
Db 61 FLAALIGPPERSYSLCVPTPDAGCGARVAAHLHQLHQLRRGFQRCQLRLCYCP 120
QY 121 GSGAGAGQGGFLRDLDDPDTQALIELLIGACQEARPLGFEADPRQGLMORLMEVQ 180
Db 121 GSGAGAGQGGFLRDLDDPDTQALIELLIGACQEARPLGFEADPRQGLMORLMEVQ 180
QY 181 DGRRLQVCAQVVPVPEPLHPVVDLPSSVFPDEBARAVLDECTSFIEARAVLDLV 240
Db 181 DGRRLQVCAQVVPVPEPLHPVVDLPSSVFPDEBARAVLDECTSFIEARAVLDLV 240
QY 241 DQCPKQIQKGFQVVAIEGLDATGKTTVQSVADSLKAVLLKSPSCIGQWRKIFDDEPT 300
Db 241 DQCPKQIQKGFQVVAIEGLDATGKTTVQSVADSLKAVLLKSPSCIGQWRKIFDDEPT 300
QY 301 IIRAFYSIGNYIVASEIAKESAKSPYIVDRVWHTATYALINTEVSGGLOHLPRAHPVY 360
Db 301 IIRAFYSIGNYIVASEIAKESAKSPYIVDRVWHTATYALINTEVSGGLOHLPRAHPVY 360
QY 361 QWPEDLKPDLLLTVSPEERLQRLQGRGMEKTREREAELEANSVFRQKVMYSQRMENP 420
Db 361 QWPEDLKPDLLLTVSPEERLQRLQGRGMEKTREREAELEANSVFRQKVMYSQRMENP 420
QY 421 GCHVDASPSREKVLQTVLSLTONSFSEP 449
Db 421 GCHVDASPSREKVLQTVLSLTONSFSEP 449

RESULT 3
US-09-984-880-4
; Sequence 4, Application US/09984880
; Patent No. 6489153
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC

; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: C1001305
; CURRENT APPLICATION NUMBER: US/09/984,880
; CURRENT FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 508
; TYPE: PRT
; ORGANISM: HomoSapien
US-09-984-880-4

Query Match 33.7%; Score 795.5; DB 4; Length 508;
Best Local Similarity 48.1%; Pred. No. 2.9e-72;
Matches 177; Conservative 0; Mismatches 4; Indels 187; Gaps 2;

QY 225 ECTSFIEARAVLDVDCPKQIQKGFQVVAIEGLDATGKTTQCTSFIEARAVLDVDC 284
Db 1 ECTSFIEARAVLDVDCPKQIQKGFQVVAIEGLDATGKTTQCTSFIEARAVLDVDC 60
QY 285 -----PSCIGQWRKIFDDEPTIIR 303
Db 61 CTSFIEARAVLDVDCPKQIQKGFQVVAIEGLDATGKTTQCTSFIEARAVLDVDC 120
QY 285 -----PSCIGQWRKIFDDEPTIIR 303
Db 121 PREVOGKGFQVVAIEGLDATGKTTQCTSFIEARAVLDVDCPKQIQKGFQVVAIEGLDATGKTTQCTSFIEARAVLDVDC 180
QY 304 RAFTSLGNVYVASEIAKESAKS-----PSCIGQWRKIFDDEPTIIR 325
Db 181 RAFTSLGNVYVASEIAKESAKSPYIVDRVWHTATYALINTEVSGGLOHLPRAHPVY 240
QY 326 -----PVIIDRYWHTA 337
Db 241 HSTATYPCIKRVEEDLLMNLSPSEPFILMANYLVASIAKESSTNEPVIIDRYWHTA 300
QY 338 TYAITEVSGGLOHLPRAHPVYQWPEDLKPDLLLTVSPEERLQRLQGRGMEKTRER 397
Db 301 TYAITEVSGGLOHLPRAHPVYQWPEDLKPDLLLTVSPEERLQRLQGRGMEKTRER 360
QY 398 AELEANSV 405
Db 361 AELEATEV 368

RESULT 4
US-10-277-032-4
; Sequence 4, Application US/10277032
; Patent No. 6664087
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: C1001305 DIV
; CURRENT APPLICATION NUMBER: US/10/277,032
; CURRENT FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/984,880
; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 508
; TYPE: PRT
; ORGANISM: HomoSapien
US-10-277-032-4

Query Match 33.7%; Score 795.5; DB 4; Length 508;
Best Local Similarity 48.1%; Pred. No. 2.9e-72;
Matches 177; Conservative 0; Mismatches 4; Indels 187; Gaps 2;

QY 225 ECTSFIEARAVLDVDCPKQIQKGFQVVAIEGLDATGKTTQCTSFIEARAVLDVDC 284

[illegible]

CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 25690
LENGTH: 681
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25690

Query Match 5.0%; Score 118; DB 4; Length 681;
Best Local Similarity 23.2%; Pred. No. 0.0072;
Matches 125; Conservative 49; Mismatches 189; Indels 176; Gaps 28;

QY 2 APARRLLRGLSGPLLRGV-----CAGAAAPPCRFVLEL-----PDCTLAHFGAD 50
DB 97 AGARRAGPGSLAGP-AGRRGLRPPGAGALLARAVARQVGPARRRPGHRLAQ---RP 151
QY 51 ARGDADAPDPRLLALLGPERSYSLCVPTPDAGC--GARVRAARLHQRLLHQLRRGPFQ 108
DB 152 QPGRRRRPGDLEPLRPGKPFPRRAGQGPDLRCRSANVHALGEEHLAASGRRP--- 208
QY 109 RCOLLRLLCYCPGGAGAGQGFLLRDPDPTRRQALLLELGAACCGAPRPHLGEPFADP 168
DB 209 -----APGPGGGRPRG-----RLRLPGLLGAVAHADALLPAAFER 246
QY 169 R-----GQLWRIMEVQDGRRLQVCAQVVPVEPRLHVV--PDLPSVVEPDEEAR 220
DB 247 RLHGVSAGPATGACALQPGKR---GADVPR-----FVDEPGRQDPAVHPAAGAR 225
QY 221 AVIECSFPIPEARAVLDVDCCKQIQKGFQVVAIEGDAGKTTVTQSVADSLKAVL 280
DB 296 AAT-----AVDAV--AGHRQHRYPWT--LPLSGN-----ALSLLEVL 331
QY 281 LKSPS--C-----IGWRKIFPDE--PTIRAFYSIGNYIVASEIAKE--SA 323
DB 332 EPLDPGQPCPSLRYPDPYRLRELRREDDSLPTGWCQAEARAAVAEQLASDLOR 391
QY 324 KSPVIYVRVYHSTRVYLAIEVSGGLQ-----HLPRAHFVYQ---W--PE 364
DB 392 RSKDMLAAWLGEM--LQRGGLGGLRALVLLAEICERPEEVHQAQDDQSWVPPI 449
QY 365 D-----LKKPDLIL-----LTVSPERLQRLQKGMKTEEBELEANSVPRK 409
DB 450 DWLLRYVELLHRLRLPMGGAPAEITVYAKQLQQAASGDSKAKALEAAQLQOKK 509
QY 410 V-----EMSYQRMEN-----PGCHVVDASPSREKVLQ 436
DB 510 LDEALRAEPLVQWRQASILACQQLQRLQEWCDRCGLGLAPSC-----QPLREVLNQ 563

RESULT 8
US-09-632-553-2
Sequence 2, Application US/09632553
Patent No. 6689595
GENERAL INFORMATION:
APPLICANT: Pharmacia & Upjohn
TITLE OF INVENTION: Crystallization and Structure Determination of
FILE REFERENCE: 6245.NCP
CURRENT APPLICATION NUMBER: US/09/632,553
CURRENT FILING DATE: 2000-08-04
PRIOR APPLICATION NUMBER: 60/147,117
PRIOR FILING DATE: 1999-08-04
NUMBER OF SEQ ID NOS: 3
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 213
TYPE: PRT
ORGANISM: Escherichia coli

US-09-632-553-2

Query Match 5.0%; Score 117.5; DB 4; Length 213;
Best Local Similarity 23.6%; Pred. No. 0.0013;
Matches 52; Conservative 42; Mismatches 85; Indels 41; Gaps 10;

QY 255 VALIGDAGTKTWTQSVADSLK-----AVLLKSP-----SCIQWRK 293
DB 6 IVIELEGAGKTTARNVVETLEQGINMVFTRRPGGTQLAEKRLSLVLDIKSVGD--E 63
QY 294 IPDDEFTIRRAAFYSIGNYIVASEIAKSANSP-VIYRVMHSTATVLAIEVSGGLQHL 352
DB 64 VITDKAEVL--MFAARVQVETVIKPLANGTWVIGRHLSTQAY-----QGGGRGI 115
QY 353 PRAHFPVYQWPRDL---KPDILLLTVSPERLQRLQRG-MEKTREAELEANSVPRQ 408
DB 116 D--QHMLATLRAVAGDRPRDLTLVDVTPVEGLKRAARAGELDIQESDFFNRTAR 173
QY 409 KYEMSYQRMENPGCHVVDASPSREKVLQTVLSLQNSFSE 448
DB 174 YLELAQ--DKSIHTIDATQPLEAVMDAIRTYVTHWKE 210

RESULT 9

US-09-489-039A-7540
Sequence 7540, Application US/09489039A
Patent No. 6610836

GENERAL INFORMATION:

APPLICANT: Gary Breton et. al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA

FILE REFERENCE: 2709.2004001

CURRENT APPLICATION NUMBER: US/09/489,039A

CURRENT FILING DATE: 2000-01-27

PRIOR APPLICATION NUMBER: US 60/117,747

PRIOR FILING DATE: 1999-01-29

NUMBER OF SEQ ID NOS: 14342

SEQ ID NO 7540

LENGTH: 219

TYPE: PRT

ORGANISM: Klebsiella pneumoniae

US-09-489-039A-7540

Query Match 5.0%; Score 117.5; DB 4; Length 219;
Best Local Similarity 22.1%; Pred. No. 0.0014;
Matches 52; Conservative 41; Mismatches 85; Indels 57; Gaps 8;

QY 248 QKGFQVVAIEGDAGKTTVTQSVADSLKA-----YLKSPSC----- 288
DB 5 KKMNSNYIVIEGLEGAGKTTARQLVETLQSAIGHMVFTRRPGGTLLAEKRLSLVLDIQ 64
QY 289 GQMKRIFDDEFTIRRAAFYSIGNYIVASEIAKSANSP-VIYRVMHSTATY----- 339
DB 65 STGDEVINDKAEVL--MFAARVQVETVIKPLARQGWIGRHLSTQAYGGGGRGID 122
QY 340 -----ALATVSGGLQHLPRAHFPVYQWPRDLKPDILLLTVSPERLQRLQRG-MEK 393
DB 123 RYMLATLRDVLGD-----FRPDLTLVDVTPVEGLQRAARAGELDR 164
QY 394 TREAELEANSVPRQKYMENPGCHVVDASPSREKVLQTVLSLQNSFSE 448
DB 165 IEGSMNFFNRTARVLELA--AADPSIRTVDATQPLDVAVDIATTAQMMAE 216

RESULT 10

US-09-902-540-15299
Sequence 15299, Application US/09902540
Patent No. 6833447

GENERAL INFORMATION:

APPLICANT: Goldman, Barry S.

APPLICANT: Hinkle, Gregory J.

APPLICANT: Slater, Steven C.

APPLICANT: Wiegand, Roger C.

TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
FILE REFERENCE: 38-10(15849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 15299
LENGTH: 925
TYPE: PR
ORGANISM: Myxococcus xanthus
US-09-902-540-15299

Query Match
Best Local Similarity 24.2%; Score 115; DB 4; Length 925;
Matches 137; Conservative 50; Mismatches 208; Indels 172; Gaps 34;

4.9%; Score 115; DB 4; Length 925;
Matches 137; Conservative 50; Mismatches 208; Indels 172; Gaps 34;

1 MAFARLLRGP-----LSGRLGRGVCAGAMAP-CFVLELPD---CT-LAH-FA 46
45 IAGARLVARPGCGRDGVLG-LIARQVSIHFGPTLRLVLDADLELCTSLRIVFC 103
47 LGADAPD-----ADAPDRLAALLPPEKSYSLCVPTPDAC-----G 86
104 GGEVVPVSLCERLLARV-ARLHQYGFTE-----ATIDASCMDCVGSTRSYPMG 154
87 ARVPAARLHQRLHQLRGPRQQLRLCYCPGQAGAGQGFLLR-----DP 136
155 APVANTLHVLDARGLHAAEGVEGL-IGV--GLARKYLRRPDITAAAFVDP 206
137 L-DDPDR-----QALLLELGACQ-----BAPPHLGEFADPRGQLMOR--- 175
207 FSEEPGARLVRTGDLVARMDDGTQFLGRDHQVKAQVVELGEITALLGHGLAEV 266
176 ---LMEVQDGRLOVGAQVVP---VPEP-----LHPVVDLPSSVVF----- 213
267 VVVRGEGEDERHL---VAYVVPANAVEPLETLARAFLESLRDLVAVFPLDGLPL 323
214 -PREBARAVLEECTSFIPBARAVLDVDCPKQIQ-----GKQVVAIEG-----L 260
324 TPFGKDRGALPESEF---NRLVPSGJHEPRGALSERLSRMGEVLRVALPGRHAFTL 380
261 DATGKTVTQSVADSLKAVLLKSPSCIGWRKIFDEPTIIRAFVSLGNYIYASIAK 320
381 ELGSDSLAVRIARLEAGVRCPS-----QLF-SHTTAEIA-----GLRALDOLP 429
321 ESAKSEVTVDRYHSTAT---YATATEVSGLOH--LPPAHVYQMPEDLLKPDILL 375
430 DCGKASAVPEDEWPSAASEPPLTPMQEGMLFTLLAPGSRVYHQLEFELRGLV--- 486
376 TVEPE---ERL-----QRLQGRMEKTR--EAEI-----EANSVPRK 409
487 ---PELIERAMCEYAGNHPGLRMKFWQEGSAPQVARELPLEMWDMSQESLAEER 543
410 VEMSYQRMENPGCHVDASPSREKVLQ 436
544 RERFLAEDRARGFALTDAFPRVLSVQ 570

RESULT 11
US-09-902-540-15011
Sequence 15011, Application US/09902540
Patent No. 6833447
GENERAL INFORMATION:
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
FILE REFERENCE: 38-10(15849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10

NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 15011
LENGTH: 1646
TYPE: PR
ORGANISM: Myxococcus xanthus
US-09-902-540-15011

Query Match
Best Local Similarity 23.5%; Score 110.5; DB 4; Length 1646;
Matches 120; Conservative 42; Mismatches 171; Indels 177; Gaps 26;

4.7%; Score 110.5; DB 4; Length 1646;
Matches 120; Conservative 42; Mismatches 171; Indels 177; Gaps 26;

16 ILGRGVGAGAMAPCFVLELPDCTLAHPALGADAPGADADPRLAALLGPERSYSL 75
375 LIAHQ-LDAALAGQAR-ALVIGGETISAEAL---EWMRSHAGTRILINNYGPTETVVC 429
76 CV-PVTPD-----AGGARVRAARLHQRLHQLRRGPRQQLRLCYCPGQAG--- 125
430 CVHEATPDDARTGSVAIGRIANTRLVYLDEN-----LRLV---PVGHEGLY 474
126 ---GAQGFLLR-----DPLDD--PDR-----QALLLELGACQ--- 155
475 IGGDVARGYLDRPELTAEFVDPDPGDPGARLVRTGDRVRPPDGVLDPLGRDQVK 534
156 --APRPHLGEFADPRGQLMQ-----RLMEVQDGRLOVGAQVVPVEPPLAPV 203
535 VRGRIELGEIE---GVLQAGVREVVVAREDEIGSRLL---VAYVVPNEGADVER 587
204 VPDLPSSVFPDEBARAVLEECTSFIPBARAVLDVDCPKQIQKGF-----QV 255
588 VL-----QLARAKLPE--HLVPSVVVPLDALPLSP---NGKVDRRALPAPEAI 631
256 AIEGLDA-TGKTVTQSVADSLKAVLLKSPSCIGWRKIFDEPTIIRAFVSL-GNYI 313
632 ARSHDGYVAPRTAQLLCSIAEELRL-----ERVGIRUNFDLGGDSI 677
314 VASEIAKESAKSEPVIV---DRYHSTATYATATEVSGG----- 348
678 LGVQLIGRANRAGLHLTPKQFLDHQTFDELAASGTCGSIARQGLVNGVPLPLIQWF 737
349 -LQHLPPAHN-----PYQMPEDLLKPDILLTLVSEERIQ----- 384
738 FRQPOPAPHNFQAVLLETHASFRSDLLKPALALALAHDLRLFRETEGHMLQRCAL 797
385 -----RLQGRMEKTRFEAELEANSV 405
798 ERAPVSTFNLSGSPHORLEATPAASL 827

RESULT 12
US-09-107-433-3820
Sequence 3820, Application US/09107433
Patent No. 6800744
GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE
THERAPEUTICS
NUMBER OF SEQUENCES: 5206
CORRESPONDENCE ADDRESS:
ADDRESSEE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: <Unknown>
OPERATING SYSTEM: <Unknown>
SOFTWARE: <Unknown>
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,433
FILING DATE: 30-Jun-1998

```
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 60/ 085131
/ FILING DATE: May 12, 1998
/ APPLICATION NUMBER: 60/051553
/ FILING DATE: July 2, 1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Ariniello, Pamela Deneke
/ REGISTRATION NUMBER: 40,489
/ REFERENCE/DOCKET NUMBER: CTC-011
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (781)893-5007
/ TELEFAX: (781)893-8277
/ INFORMATION FOR SEQ ID NO: 3820:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 218 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ HYPOTHEetical: YES
/ ORIGINAL SOURCE:
/ ORGANISM: Streptococcus pneumoniae
/ FEATURE:
/ NAME/KEY: misc.feature
/ LOCATION: (B) LOCATION 1...218
/ SEQUENCE DESCRIPTION: SEQ ID NO: 3820:
US-09-107-433-3820

Query Match
Best Local Similarity 4.6%; Score 109; DB 4; Length 218;
Matches 53; Conservative 36; Mismatches 95; Indels 36; Gaps 8;

QY 246 QIQKGRQVVAIGLDATGKTYTQSVADSLK---AVLLKSPSCIGQWRKIFD----- 296
DB 4 ELMSKGFVLSBPGESAGKTSVLEALPLLEKGYEVLTTRPGVGLGCKRREYILDP 63
QY 297 ----DEPTIRAFSLGNYIVASEIAKESAKSPYIVDRYHSTATY-----AIAIEVS 346
DB 64 SHYOMAKTELLIYIASRQHLVEKYLPALEAGKLYIMRPFIDSSVAOQFGRGLDEAI 123
QY 347 GGLQHLPRAHHPYQWPEDLTKPDLLILLTVSPERLQRLQSGRMKTEBEALEANSV- 405
DB 124 DWLN-----QRTDGLKPDLLTYPIVEEBGLAI---AANSDEVNLDEGLD 170
QY 406 FRQKVENSY-QRMENPGCHV--DASPSREKVLQTVLSI 442
DB 171 LHKKVRQGYLSLDKGNRIKIDASLPLEQVETTKAVL 210

RESULT 13
US-09-252-991A-24254
/ Sequence 24254, Application US/09252991A
/ Patent No. 6551795
/ GENERAL INFORMATION:
/ APPLICANT: Marc J. Rubenfield et al.
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
/ FILE REFERENCE: 107196.136
/ CURRENT APPLICATION NUMBER: US/09/252,991A
/ PRIOR FILING DATE: 1999-02-18
/ PRIOR APPLICATION NUMBER: US 60/074,788
/ PRIOR FILING DATE: 1998-02-18
/ PRIOR APPLICATION NUMBER: US 60/094,190
/ PRIOR FILING DATE: 1998-07-27
/ NUMBER OF SEQ ID NOS: 33142
/ SEQ ID NO 24254
/ LENGTH: 955
/ TYPE: PRT
/ ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24254

Query Match
Best Local Similarity 4.6%; Score 109; DB 4; Length 955;
Matches 74; Conservative 14; Mismatches 83; Indels 92; Gaps 15;
```

```
QY 4 ARRLNG-----PLSGPLIG-----RQVCA-----GAMAPRCRFVLELPDCT 41
DB 706 ARRAVAGAGDDPPSVWSRPLLAGPETIDRGLAAGRPAGDSVQGAAGGTGGLADPGAT 765
QY 42 LMFALGAD---APGDADPDP-----RLAALIG-----PPERSY 73
DB 766 DHGAGIGCEGPGAPGA-APLPPRQRLMAVGAAGNIGHRGKRYALPPRPGTQDEHRAI 824
QY 74 SLCPVTPDAGCA-----RVRAARLHORL---HQLRGPFGQQLRLCYCPGQAG 125
DB 825 PNHAP-GPPLGAGAGRRPRAPQVLIHLRLGGGICRRQ-----PGGPG 869
QY 126 GAQGGFLRDLDDPTRGALLLELGAQGEARPHLGEFEADPRQGLWQRLWEVODGRRL 185
DB 870 HGPRP-----AQPRPQ-----SPERRPRPGEI---PRPRTVQLGQAQARPV 912
QY 186 QVGAQVVPVPRPLAHVPVPLP 208
DB 913 RPDRRSALPFRQLP-DPGLP 934

RESULT 14
US-09-252-991A-25642
/ Sequence 25642, Application US/09252991A
/ Patent No. 6551795
/ GENERAL INFORMATION:
/ APPLICANT: Marc J. Rubenfield et al.
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
/ FILE REFERENCE: 107196.136
/ CURRENT APPLICATION NUMBER: US/09/252,991A
/ PRIOR FILING DATE: 1999-02-18
/ PRIOR APPLICATION NUMBER: US 60/074,788
/ PRIOR FILING DATE: 1998-02-18
/ PRIOR APPLICATION NUMBER: US 60/094,190
/ PRIOR FILING DATE: 1998-07-27
/ NUMBER OF SEQ ID NOS: 33142
/ SEQ ID NO 25642
/ LENGTH: 615
/ TYPE: PRT
/ ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25642

Query Match
Best Local Similarity 4.6%; Score 108.5; DB 4; Length 615;
Matches 98; Conservative 49; Mismatches 170; Indels 137; Gaps 20;

QY 6 RLKGPLSGPLIGRGVCAAMAPRCRFVLEPDTLHMFALGADADADADPRLAL 65
DB 280 RLAKGHNGPTADHMTCKNATPE---ILEL-----SPRLDADPGVRLALI 325
QY 66 ---LGPERSYSLCPVTPDAGGAVRAARLHORLHQLRRGPFQRCOLLRLCYCPG 121
DB 326 ELADLELPEALPILIALRGDPDGVGEAARILE-----AMBEDAVNALCAA-- 374
QY 122 GQAGAGQGFLLRPLDDPTROLLELGAQGE-APR--PHLGEFEADPRQGLWQRL 176
DB 375 -----LADPV--PAVADAAQSLGELKEPAGRGRLPLPLGHADAFAVRASTVRL 421
QY 177 WEVODGRRLQVCAQVVPVPRPLAHVPVPLPSVVPVPRDEARAVALECTSFPEARAV 236
DB 422 REL-----RLBESA-----PALAAGDPQA-----VREBAVAV 451
QY 237 LDVLDQCPKOIQKGFQVVAIEGLDATGKTYTQSVADSLKAVLLNSPSCI-----QWR 292
DB 452 LGWLHQPALAEIAR---LASADVDEVRRAAGALGLSREAVTL--PALCALADAQWQ 506
QY 293 KIIPDEPTIIRAFYSIGNYIVASEIAKESAKSPV---IYDRYHSTATYAITVSGGL 349
DB 507 -----VREBAATYTG-----KIGREAGSPLLKALADWYQVRLR---AARALGRL 549
QY 350 QHLPRAHHPYQWPEDLTKPDLLILLTVSPERLQRLQSGRMKTEBEALEANSVFRQK 409
```

Db 550 RHRP-----ARAEALALGHPICNTURKEALALGELADPA 584
QY 410 VEMSYQRMENPGCHVDASPSREKVIQTIVSLIQ 443
Db 585 SAQALRVAEG-----DGDEVRKAVRIALALQLR 612

RESULT 15

US-09-259-109-2
; Sequence 2, Application US/09259109
; Patent No. 6270762
; GENERAL INFORMATION:
; APPLICANT: Burnham, Martin K. R.
; APPLICANT: Zalacain, Magdalena
; APPLICANT: Biswas, Sanjoy
; APPLICANT: Chaliker, Alison F.
; APPLICANT: Ingraham, Karen A.
; APPLICANT: Traini, Christopher M.
; APPLICANT: Warren, Patrick V.
; TITLE OF INVENTION: cdk
; FILE REFERENCE: GM10201
; CURRENT APPLICATION NUMBER: US/09/259,109
; CURRENT FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 212
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-259-109-2

Query Match 4.5%; Score 107; DB 3; Length 212;
Best Local Similarity 24.5%; Pred. No. 0.015;
Matches 52; Conservative 34; Mismatches 90; Indels 36; Gaps 8;

QY 254 VVAIEGLDATGKTKTVTQSVADSLK---AVLTKSPSCIGQWRKIIP-----DEP 299
Db 6 LVSLBEGPEGAGKTSVLEALPILBKGVEVLTTRPGGVLIQEKIREVILDPSTHOMDAK 65
QY 300 TIIRAFYSLGNTYIVASEIAKESAKSPVIYDRVYWHSTATY-----AATVSVGGIQLP 354
Db 66 TELLYIASRRQHVEKVLPALEAGKLVINDRFIDSSVAYQFGRGLDIEADWLN----- 121
QY 355 AHHPIVYQWPEDDLKPDILILLTVSPERLQPLQGRGMKTRAEAELEANSV-FRQKVEMS 413
Db 122 -----QFATDGLKPDLLTYFDIEVEEGLARI---AANSDEVRVRLDLEGLDLHKVROG 172
QY 414 Y-QRMENPGCHV--DASPSREKVIQTIVSLI 442
Db 173 YLSLDKESGNRIYKIDASLPLEQVETTKAVL 204

Search completed: February 27, 2005, 17:53:15
Job time : 46 secs

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QY	121	GTGGCGCTTGTGTCGTGAGACTTCCGACCTGTGCTCACTTGCCCTAGAGCGCGCA	180
DB	121	GTGGCGCTTGTGTCGTGAGACTTCCGACCTGTGCTCACTTGCCCTAGAGCGCGCA	180
QY	181	GGCCCCCGGCGAGCGCAGAGACCCCGGACCCCGGCTGGGAGGCGCTGTGAGGCGCCCGGA	240
DB	181	GGCCCCCGGCGAGCGCAGAGACCCCGGACCCCGGCTGGGAGGCGCTGTGAGGCGCCCGGA	240
QY	241	GGCAGACTACTGCGCTGTGCGTGGCCCGGTGACCCCGGACGCGCGCTGCGGAGCCCGGCTCCG	300
DB	241	GGCAGACTACTGCGCTGTGCGTGGCCCGGTGACCCCGGACGCGCGCTGCGGAGCCCGGCTCCG	300
QY	301	GGCGGCGCGGCTGACCAAGCGCTGTGACCAAGCTGTGCGCGCGGCGCTTCCAGCGGTG	360
DB	301	GGCGGCGCGGCTGACCAAGCGCTGTGACCAAGCTGTGCGCGCGGCGCTTCCAGCGGTG	360
QY	361	CCAGCTGCTCAGGCTGTGCTGCTACGCGCGGCGCGGCGCGGCGCGGCGGCGACAGAAAG	420
DB	361	CCAGCTGCTCAGGCTGTGCTGCTACGCGCGGCGCGGCGCGGCGCGGCGGCGACAGAAAG	420
QY	421	CTTCTGCTGCGCGACCCCGCTGATGACCTGTGACACCCCGGCAAGCGCTCTCGAGCTGTG	480
DB	421	CTTCTGCTGCGCGACCCCGCTGATGACCTGTGACACCCCGGCAAGCGCTCTCGAGCTGTG	480
QY	481	GGGCGGCTGTGCGAGAGGACCAAGCGCGGCTGTGACCAAGCTGTGAGGCGGACCCGCGCG	540
DB	481	GGGCGGCTGTGCGAGAGGACCAAGCGCGGCTGTGACCAAGCTGTGAGGCGGACCCGCGCG	540
QY	541	CCAGCTGTGCGAGGCGCTGTGAGAGGTGACCAAGCGGCGGCGGCTGTGAGGCGGCGGCGG	600
DB	541	CCAGCTGTGCGAGGCGCTGTGAGAGGTGACCAAGCGGCGGCGGCTGTGAGGCGGCGGCGG	600
QY	601	ACAGGTCGTGCCCGTCCCGGAGACCCCGCGCTGACCCGCGTGTGCGCAGACTTGCACAGTTC	660
DB	601	ACAGGTCGTGCCCGTCCCGGAGACCCCGCGCTGACCCGCGTGTGCGCAGACTTGCACAGTTC	660
QY	661	CGTGTCTTCCCGGACCGGGAAGCGGCGCGGCGCTTGTGAGAGGTGACTCTCTTAT	720
DB	661	CGTGTCTTCCCGGACCGGGAAGCGGCGCGGCGCTTGTGAGAGGTGACTCTCTTAT	720
QY	721	TCCCTAAGCGCGGCGGACGTGACCTGTGACCAAGTGCACCAAGTGCACCAAGTGCACCAAG	780
DB	721	TCCCTAAGCGCGGCGGACGTGACCTGTGACCAAGTGCACCAAGTGCACCAAGTGCACCAAG	780
QY	781	AAAGTTCAGGTTGTGTGCATGAGAGACTGTGATGCACAGGCTTAAACACAGGTGACCA	840
DB	781	AAAGTTCAGGTTGTGTGCATGAGAGACTGTGATGCACAGGCTTAAACACAGGTGACCA	840
QY	841	GTCAGTGCGAGTTCACCTTAAGGCTGTCTTAAAGTCAACCAACCCTCTTGTATGCGCA	900
DB	841	GTCAGTGCGAGTTCACCTTAAGGCTGTCTTAAAGTCAACCAACCCTCTTGTATGCGCA	900
QY	901	GTGGAGGGAAGACTTGTGATGATGAACCAACTATCATTAGAAGCTTTTACTCTTTGGG	960
DB	901	GTGGAGGGAAGACTTGTGATGATGAACCAACTATCATTAGAAGCTTTTACTCTTTGGG	960
QY	961	CAATTATATTTGGGCTCCGGAATAATGCTAAAGATCTGCAATCTCCTGTATGTGTAGA	1020
DB	961	CAATTATATTTGGGCTCCGGAATAATGCTAAAGATCTGCAATCTCCTGTATGTGTAGA	1020
QY	1021	CAGGTACTGGCACAGCAGCGGCACTTATGCACTAGCCACTGAGGTGAGTGGGAGTCTCCA	1080
DB	1021	CAGGTACTGGCACAGCAGCGGCACTTATGCACTAGCCACTGAGGTGAGTGGGAGTCTCCA	1080
QY	1081	GCACCTGCCCCCAGGCCCATCAACCTGTGTGACAGGTGGCAGAGGACTGTCTCAAACTGCA	1140
DB	1081	GCACCTGCCCCCAGGCCCATCAACCTGTGTGACAGGTGGCAGAGGACTGTCTCAAACTGCA	1140
QY	1141	CCTTATCTGCTGTCTCACTGTGAGTCTGAGAGAGGTTTGACAGAGGCTGCAAGGCGCGGGG	1200
DB	1141	CCTTATCTGCTGTCTCACTGTGAGTCTGAGAGAGGTTTGACAGAGGCTGCAAGGCGCGGGG	1200
QY	1201	CATGAGAGAAGCACAGGAGAAGAACCTTGAGGCGCAACAGTGTGTTCTGTCAAAAGGT	1260

Db	1201	CATGGAGAAAGCACAGGGAAAGAGCAACTGAGGCCCAACAGTGTCTTCTGCAAAAGT	1260
QY	1261	AGAAATGCTCCACGAGCGGATGGAGAACTCGCGCCATGCGTGGATGACAGCCCTC	1320
Db	1261	AGAAATGCTCCACGAGCGGATGGAGAACTCGCGCCATGCGTGGATGACAGCCCTC	1322
QY	1321	CAGAGAAAAAGTCCTCGACAGACGTATTAGCCTAATCCAGAAATGTTTAACTGAAACGTA	1380
Db	1321	CAGAGAAAAAGTCCTCGACAGACGTATTAGCCTAATCCAGAAATGTTTAACTGAAACGTA	1380
QY	1381	GTTACTCTGGCCAGGTGCGACGTTACTAGTTAGATGTGTTGAAACATCTACATCC	1440
Db	1381	GTTACTCTGGCCAGGTGCGACGTTACTAGTTAGATGTGTTGAAACATCTACATCC	1440
QY	1441	ACCAATTGTATGAGAGTGTCCCAAATTCCTGTTCTAACACAGATGTTGGGAGAAA	1500
Db	1441	ACCAATTGTATGAGAGTGTCCCAAATTCCTGTTCTAACACAGATGTTGGGAGAAA	1500
QY	1501	CTGGAGACCAAGCATCTTAAATTTTACTGACGCACTGTAACCTCTTCTGACGTATGAC	1560
Db	1501	CTGGAGACCAAGCATCTTAAATTTTACTGACGCACTGTAACCTCTTCTGACGTATGAC	1560
QY	1561	CGTCATCAAAAGTCCCTCTCATCATGTTCCAGTGAAGGCGACGCAATGCTTCTTCC	1620
Db	1561	CGTCATCAAAAGTCCCTCTCATCATGTTCCAGTGAAGGCGACGCAATGCTTCTTCC	1620
QY	1621	TGGCATGTAAACATTTTCTTGGAAACATGTTTCACTTATTCATCAAAATATCTGGA	1680
Db	1621	TGGCATGTAAACATTTTCTTGGAAACATATTTTCACTTATTCATCAAAATATCTGGA	1680
QY	1681	AGACCTGTCTTACTCAGACAGCACAGGTGTACAGAAAGCAGACAGACAGATCTTCCAGAT	1740
Db	1681	AGACCTGTCTTACTCAGACAGCACAGGTGTACAGAAAGCAGACAGACAGATCTTCCAGAT	1740
QY	1741	CAGAGGGAGACCCCGAGCCTCTGCTTCTCTACACTGGCATGTGTGATGATCTGAC	1800
Db	1741	CAGAGGGAGACCCCGAGCCTCTGCTTCTCTACACTGGCATGTGTGATGATCTGAC	1800
QY	1801	ATGCCCATTTGGGCTTTTCCACATCTGGTGTGACCTGTCAATGATGGGCTGCTGCATCT	1860
Db	1801	ATGCCCATTTGGGCTTTTCTTCCACATCTGGTGTGACCTGTCAATGATGGGCTGCTGCATCT	1860
QY	1861	CCCTCAGTCCCAAATTTCTAGAGCCAAGTGTCCCTGAGAGGCTGTCTATGTGTCTGGC	1920
Db	1861	CCCTCAGTCCCAAATTTCTAGAGCCAAGTGTCTCTGAGAGGCTGTCTATGTGTCTGGC	1920
QY	1921	TGCCCAAGGACACTCCTGACAGGCCATTTTGGGTAAAGAACCTTACAAAGAAAGCAT	1980
Db	1921	TGCCCAAGGACACTCCTGACAGGCCATTTTGGGTAAAGAACCTTACAAAGAAAGCAT	1980
QY	1981	TGATCTTGTGTCTAGAGCTCAGAGCCCTTTTGAATAGGCTTCTGATGTCTCATTAAGAC	2040
Db	1981	TGATCTTGTGTCTAGAGCTCAGAGCCCTTTTGAATAGGCTTCTGATGTCTCATTAAGAC	2040
QY	2041	ATTCAAGCAAGATGCTCCAACTSCAAATATCAACAACCTTCTCGAATTAATTTTGGTT	2100
Db	2041	ATTCAAGCAAGATGCTCCAACTSCAAATATCAACAACCTTCTCGAATTAATTTTGGTT	2100
QY	2101	ATTTAATATTTCTTTCTTTTCTTAAAGAAATGGCTCTGAAATAGAAATGCACATTTTCCA	2160
Db	2101	ATTTAATATTTCTTTCTTTTCTTAAAGAAATGGCTCTGAAATAGAAATGCACATTTTCCA	2160
QY	2161	TCGCAACTCGATGATATCATTTTAGCCATTCAGTAATTAATTAATATCTATACAT	2220
Db	2161	TCGCAACTCGATGATATCATTTTAGCCATTCAGTAATTAATTAATATCTATACAT	2220
QY	2221	AATATGTTTCTCGACATAGAGGTATGATTCATTTAATTAAGGTGAGTCAAAACGCTA	2280
Db	2221	AATATGTTTCTCGACATAGAGGTATGATTCATTTAATTAAGGTGAGTCAAAACGCTA	2280
QY	2281	AATGCAATGTTTGTGTGTATTTTCAATTAACAACATTAATTTGTCTGTATTAATGTT	2340

Db 2281 AATGCAATGTTGTGTGATTTTTCATTACCAAACTTAATTGTCTTGTAAATAAGTT 2340
Qy 2341 CAAGTGAATTTTGAAGGGAATTTCTTGGAATTAATCTTGCACTTGAATGTCTCATGAT 2400
Db 2341 CAAGTGAATTTTGAAGGGAATTTCTTGGAATTAATCTTGCACTTGAATGTCTCATGAT 2400
Qy 2401 TACATATGAATCGCTTTGACATATCTTTTGAACAGAAAAAGTAGTGAAGGAGGAA 2460
Db 2401 TACATATGAATCGCTTTGACATATCTTTTGAACAGAAAAAGTAGTGAAGGAGGAA 2460
Qy 2461 ATTATAGAGCTTGTGACTTTTGAAGAGTAGTGTCTTTATACACTACTCAAGCCCTG 2520
Db 2461 ATTATAGAGCTTGTGACTTTTGAAGAGTAGTGTCTTTATACACTACTCAAGCCCTG 2520
Qy 2521 AAGCTTTGATGTCCTGACAGCTGCACTAAAGAGGGGCTTTTGACCC 2571
Db 2521 AAGCTTTGATGTCCTGACAGCTGCACTAAAGAGGGGCTTTTGACCC 2571

RESULT 2
US-10-681-223-1
; Sequence 1, Application US/10681223
; Publication No.: US20040081999A1
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: CL001305 DIV-II
; CURRENT APPLICATION NUMBER: US/10/681,223
; PRIOR FILING DATE: 2003-10-09
; PRIOR APPLICATION NUMBER: 10/277,032
; PRIOR FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/984,880
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2571
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-681-223-1

Query Match 100.0%; Score 2571; DB 17; Length 2571;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2571; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 361 CCAGCTGCTCAGGCTGCTGTACTAGTCCGAGGCGGACAGGCGGCGGCGCACAGCAAG 420
Qy 421 CTTCCTGCTGCGGACCCCTTGATGATGACCTGACACCCGGAAGCGTGTGAGAGCTGCT 480
Db 421 CTTCCTGCTGCGGACCCCTTGATGATGACCTGACACCCGGAAGCGTGTGAGAGCTGCT 480
Qy 481 GGGCGGCTGCGAGAGGACACAGCGCGGCACTTGGGCGAGTTGAGAGGCGAGCCGCGG 540
Db 481 GGGCGGCTGCGAGAGGACACAGCGCGGCACTTGGGCGAGTTGAGAGGCGAGCCGCGG 540
Qy 541 CCAGCTGTGCAAGCGCTCTTGAGAGGTGCAAGACGCGAGCGGCTGAGAGGTGAGCG 600
Db 541 CCAGCTGTGCAAGCGCTCTTGAGAGGTGCAAGACGCGAGCGGCTGAGAGGTGAGCG 600
Qy 601 ACAGGTGCTGCGGCTGCGGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 660
Db 601 ACAGGTGCTGCGGCTGCGGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 660
Qy 661 CGTGTCTTCCGAGACCGGGAAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 720
Db 661 CGTGTCTTCCGAGACCGGGAAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 720
Qy 721 TCCGTAAGCCCGGCGAGTGTGACCTGTGACAGTGTGACAGTGTGACAGTGTGACAG 780
Db 721 TCCGTAAGCCCGGCGAGTGTGACCTGTGACAGTGTGACAGTGTGACAGTGTGACAG 780
Qy 781 AAGTTCCAGGTTGTTGCTTCAATGATGATGATGATGATGATGATGATGATGATGAT 840
Db 781 AAGTTCCAGGTTGTTGCTTCAATGATGATGATGATGATGATGATGATGATGATGAT 840
Qy 841 GTGAGTGGAGATTTCACTTAAGGCTGCTTAAAGTCAACGCTTGTGATGATGATGAT 900
Db 841 GTGAGTGGAGATTTCACTTAAGGCTGCTTAAAGTCAACGCTTGTGATGATGATGAT 900
Qy 901 GTGAGGAAAGATCTTGAATGATGATGATGATGATGATGATGATGATGATGATGAT 960
Db 901 GTGAGGAAAGATCTTGAATGATGATGATGATGATGATGATGATGATGATGATGAT 960
Qy 961 CAATTATATTTGCTGCTCGGAATAGCTTAAGATGCTGCTGCTGCTGCTGCTGCTGCT 1020
Db 961 CAATTATATTTGCTGCTCGGAATAGCTTAAGATGCTGCTGCTGCTGCTGCTGCTGCT 1020
Qy 1021 CAGTCTGCGACAGACGCGGCACTATGCAATGCACTGAGTGAAGTGAAGTGAAGTGA 1080
Db 1021 CAGTCTGCGACAGACGCGGCACTATGCAATGCACTGAGTGAAGTGAAGTGAAGTGA 1080
Qy 1081 GCACCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1140
Db 1081 GCACCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1140
Qy 1141 CTTATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1200
Db 1141 CTTATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1200
Qy 1201 CATGAGAAAGACAGGAGAAAGACAGAACTGAGGCAACAGGTGTTTCTGAAAGGT 1260
Db 1201 CATGAGAAAGACAGGAGAAAGACAGAACTGAGGCAACAGGTGTTTCTGAAAGGT 1260
Qy 1261 AGAAATGCTCTACAGCGAGTGAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1320
Db 1261 AGAAATGCTCTACAGCGAGTGAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1320
Qy 1321 CAGAGAAAAGTCTGCAAGACATATTAAGCTTAATCCAGAAATGTTTGAAGACCTGA 1380
Db 1321 CAGAGAAAAGTCTGCAAGACATATTAAGCTTAATCCAGAAATGTTTGAAGACCTGA 1380
Qy 1381 GTTACTGTGCGAGGCGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1440
Db 1381 GTTACTGTGCGAGGCGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1440
Qy 1441 ACCATTGTTATGCAAGTGTTCCTCAATTTCTGTTCTCAAGCAATGTTGTGTGCGCA 1500
Db 1441 ACCATTGTTATGCAAGTGTTCCTCAATTTCTGTTCTCAAGCAATGTTGTGTGCGCA 1500

QY 1501 CTGGAGACCAAGCATCTTAATTTTACTTCAGCCATGTAACCTCTTCTGACTGATGACC 1560
DB 1501 CTGGAGACCAAGCATCTTAATTTTACTTCAGCCATGTAACCTCTTCTGACTGATGACC 1560
QY 1561 CGTCATCAAAAGGTCCCTCTCATCATGTTCCAGTGAAGAGCCAGAGATGCTTCTTCC 1620
DB 1561 CGTCATCAAAAGGTCCCTCTCATCATGTTCCAGTGAAGAGCCAGAGATGCTTCTTCC 1620
QY 1621 TGGCATAGTAAACATTTTCTTGAACAATGTTCACTTAATCACTAACAAATATCTGA 1680
DB 1621 TGGCATAGTAAACATTTTCTTGAACAATGTTCACTTAATCACTAACAAATATCTGA 1680
QY 1681 AGACCTCTCTTACTCAGACAGACCAAGGTATACAGAGAGAGAGAGATCTTCCAGAT 1740
DB 1681 AGACCTCTCTTACTCAGACAGACCAAGGTATACAGAGAGAGAGATCTTCCAGAT 1740
QY 1741 CAGCAGGAGAGACCCCGAGGCTCTGCTTCTCTCACTGAGCATGATGATGATGATGAT 1800
DB 1741 CAGCAGGAGAGACCCCGAGGCTCTGCTTCTCTCACTGAGCATGATGATGATGATGAT 1800
QY 1801 ATGCCCATTTGGCTTCTTCCATCTGCTTGAATGCTGCTGATGATGATGATGATGAT 1860
DB 1801 ATGCCCATTTGGCTTCTTCCATCTGCTTGAATGCTGCTGATGATGATGATGATGAT 1860
QY 1861 CCTCAGTCCCAATTTCTAGTACCAAGGTCTCTGAGAGGCTGATGATGATGATGATGAT 1920
DB 1861 CCTCAGTCCCAATTTCTAGTACCAAGGTCTCTGAGAGGCTGATGATGATGATGATGAT 1920
QY 1921 TGGCCAAAGGAGCACTCTGAGAGGCAATTTTGGGTAAAGAACACTTACAAAGAGCAT 1980
DB 1921 TGGCCAAAGGAGCACTCTGAGAGGCAATTTTGGGTAAAGAACACTTACAAAGAGCAT 1980
QY 1981 TGAATCTTGTCTGAGAGCTCAGAGGCTTTTGAATGAGCTTCAATCTCAATGAAGC 2040
DB 1981 TGAATCTTGTCTGAGAGCTCAGAGGCTTTTGAATGAGCTTCAATCTCAATGAAGC 2040
QY 2041 ATTCAAGCCAAAGATGCTCCAACTGCAAAATATACCACTTCTGAAATATATTTGCT 2100
DB 2041 ATTCAAGCCAAAGATGCTCCAACTGCAAAATATACCACTTCTGAAATATATTTGCT 2100
QY 2101 ATTAAATTTCTTTCTTTTCTTAAAGATTTGGCTCTGAATGATGATGATGATGATGAT 2160
DB 2101 ATTAAATTTCTTTCTTTTCTTAAAGATTTGGCTCTGAATGATGATGATGATGATGAT 2160
QY 2161 TCTGAAGTGGATGATATGATTTAGCCAAATGCAATTAATTAATTAATTAATTAAT 2220
DB 2161 TCTGAAGTGGATGATATGATTTAGCCAAATGCAATTAATTAATTAATTAATTAAT 2220
QY 2221 AATATGTTCTCAGATAGAGAGCTATGATTAATTAATTAATTAATTAATTAATTAAT 2280
DB 2221 AATATGTTCTCAGATAGAGAGCTATGATTAATTAATTAATTAATTAATTAATTAAT 2280
QY 2281 AATGCAATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 2340
DB 2281 AATGCAATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 2340
QY 2341 CAAGTGAATCTTGAAGTGGATTTCTTGGTAAATTAATCTTGAATGATGATGATGAT 2400
DB 2341 CAAGTGAATCTTGAAGTGGATTTCTTGGTAAATTAATCTTGAATGATGATGATGAT 2400
QY 2401 TACATATGAATATGCTTTGACATATCTTTAGACAAAGAAAGTATGATGATGATGAT 2460
DB 2401 TACATATGAATATGCTTTGACATATCTTTAGACAAAGAAAGTATGATGATGATGAT 2460
QY 2461 ATTATAGAGCTTGTGATCTTTAGAGAGTATGATCTTATACATATGATGATGATGAT 2520
DB 2461 ATTATAGAGCTTGTGATCTTTAGAGAGTATGATCTTATACATATGATGATGATGAT 2520
QY 2521 AAGCTTGAATCTTGAAGTGGATGATGATGATGATGATGATGATGATGATGATGAT 2571
DB 2521 AAGCTTGAATCTTGAAGTGGATGATGATGATGATGATGATGATGATGATGATGAT 2571

RESULT 3
US-10-305-810-6
Sequence 6, Application US/10305810
Publication No. US20030176385A1
GENERAL INFORMATION:
APPLICANT: Wu, Jinfang
APPLICANT: Huang, Chunli
APPLICANT: Zhong, Hahong
APPLICANT: Simons, Jan Fredrik
APPLICANT: Tailon, Bruce E.
APPLICANT: Chant, John S.
APPLICANT: Peyman, John A.
APPLICANT: Smithson, Glenda
TITLE OF INVENTION: ANTISENSE MODULATION OF PROTEIN EXPRESSION
FILE REFERENCE: 21402-501
CURRENT APPLICATION NUMBER: US/10/305,810
CURRENT FILING DATE: 2002-11-27
PRIOR APPLICATION NUMBER: 60/334,148
PRIOR FILING DATE: 2001-11-29
PRIOR APPLICATION NUMBER: 60/336,572
PRIOR FILING DATE: 2001-12-04
PRIOR APPLICATION NUMBER: 09/625,634
PRIOR FILING DATE: 2000-07-26
PRIOR APPLICATION NUMBER: 60/192,838
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: 60/194,256
PRIOR FILING DATE: 2000-04-03
PRIOR APPLICATION NUMBER: 09/957,187
PRIOR FILING DATE: 2001-09-19
PRIOR APPLICATION NUMBER: 60/233,798
PRIOR FILING DATE: 2000-09-19
PRIOR APPLICATION NUMBER: 09/970,813
PRIOR FILING DATE: 2001-10-04
PRIOR APPLICATION NUMBER: 60/182,637
PRIOR FILING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 60/240,316
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 47
SOFTWARE: Curseseq1 version 0.1
SEQ ID NO 6
LENGTH: 2856
TYPE: DNA
ORGANISM: Thymidine Kinase
US-10-305-810-6
Query Match 88.5%; Score 2276; DB 16; Length 2856;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 2388; Conservative 0; Mismatches 10; Indels 16; Gaps 9;
QY 83 GGG 142
DB 1 GGG 60
QY 143 CCGGACCTGACCCCTGGGCTGACCTTGGCCCTAGAGCGGCGGACCCCGGCGGACGAGAGCC 202
DB 61 CCGGACCTGACCCCTGGGCTGACCTTGGCCCTAGAGCGGCGGACCCCGGCGGACGAGAGCC 120
QY 203 CCGGACCCCGGCTGG 262
DB 121 CCGGACCCCGGCTGG 180
QY 263 CCGGACCCCGGCTGG 322
DB 181 CCGGACCCCGGCTGG 240
QY 323 CTGCTGACAGAGCTGG 382
DB 241 CTGCTGACAGAGCTGG 300
QY 383 TACTGCCCGGG 442

Db 301 TATCTCCGGGCGGCGAGGCGGCGGCGGACAGCAAGGCTTCTCTGCGGACCCCTCG 360

443 GATGACCCCTGACACCCGGGCAAGCGCTGCTCGAGCTGCTGGGCGCTCGCAGAGGACCA 502

Db 361 GATGACCTGACACCCGGGCAAGCGCTGCTCGAGCTGCTGGGCGCTGCTCAGAGGACCA 420

503 CGCCCGGCACTTGGGCGAGTTGAGGCCAACC CGCGCGGCGCAGCTGTGGCAGCGCTCGG 562

Db 421 CGCCCGGCACTTGGGCGAGTTGAGGCCAACC CGCGCGGCGCAGCTGTGGCAGCGCTCGG 480

563 GAGGTGCAGAGACGAGGCGGCTGAGAGGTGGCTGGCGCAGGTGTCGTCCTCCCGAG 622

Db 481 GAGGTGCAGAGAGGCGGCGGCTGAGAGGTGGCTGGCGCAGGTGTCGTCCTCCCGAG 540

623 CCCCCGCTGACACCCGCTGGTGCACACTTGGCCAGTTGCTCGTGGTCTTCCCGACCGGAA 682

Db 541 CCCCCGCTGACACCCGCTGGTGCACACTTGGCCAGTTGCTCGTGGTCTTCCCGACCGGAA 600

683 GCGCGCCCGGCGCGTTTGGAGAGGTGACTCTCTTATTTCTGAAGCCCGGCGAGTCTT 742

Db 601 GCGCGCCCGGCGCGTTTGGAGAGGTGACTCTTATTTCTGAAGCCCGGCGAGTCTT 660

743 GACCTGTGTGACCAATTGCCCAAAACAGATCCAGAAAGGAAAGTTCCAGATTGTGCCATC 802

Db 661 GACCTGTGTGACCAATTGCCCAAAACAGATCCAGAAAGGAAAGTTCCAGATTGTGCCATC 720

803 GAAAGGACTGAGATGCCACG--GCTAAACACACGGTGACCCAGTCAGTGCGCAGATTCATT 859

Db 721 GAAAGGACTGAGATGCCACGCGGTGTAAACACAGGTGACCCAGTCAGTGCGCAGATTCATT 780

860 AAGGCTGTCTCTTAAAGTGCACACCCCTTGTGATTTGGCAGTGAGGAGAGATCTTTGAT 919

Db 781 AAGGCTGTCTCTTAAAGTGCACACCCCTTGTGATTTGGCAGTGAGGAGAGATCTTTGAT 840

920 GATGAACCAACTATCATTTGAAAGAGCTTTTACTTTTGGCAATTATATTGTGGCTTCC 979

Db 841 GATGAACCAACTATCATTTGAAAGAGCTTTTACTTTTGGCAATTATATTGTGGCTTCC 900

980 GAAATAGCTAAAGATCTGCCAAATCTCTGTGATTTGAGACAGTACTGGCAACAGCACG 1039

Db 901 GAAATAGCTAAAGATCTGCCAAATCTCTGTGATTTGAGACAGTACTGGCAACAGCACG 954

1040 GCCACTTATGCACTAGGCCACTGAGGTGAGTGGGGCTCTCGAGCACTGCCGCCAGCCAT 1099

Db 955 GCCACTTATGCACTAGGCCACTGAGGTGAGTGGGGCTCTCTCGAGCACTGCCGCCAGCCAT 1014

1100 CACCTGTGTACCACTGTGCGCAGAGGACCTGCTCAAACTGACCTTATCTGTGCTCACT 1159

Db 1015 CACCTGTGTACCACTGTGCGCAGAGGACCTGCTCAAACTGACCTTATCTGTGCTCACT 1074

1160 GTGAGTCCCGAGAGAGGTGCGAGGGCGTGCAGGGCCGGGCGATCGAAGAACAGAGGAA 1219

Db 1075 GTGAGTCCCGAGAGAGGTGCGAGGGCGTGCAGGGCCGGGCGATCGAAGAACAGAGGAA 1134

1220 GAAGCAGAACTTGAAGGCCAACAGTGTGTTTGGTCAAAAGGTAGAAATGCTCTACCGAGGG 1279

Db 1135 GAAGCAGAACTTGAAGGCCAACAGTGTGTTTGGTCAAAAGGTAGAAATGCTCTACCGAGGG 1194

1280 ATGAGAAATCTGAGCTGCCATGTGTTGATGTGACAGCCCTTCAGAGAAAGGTCTGAG 1339

Db 1195 ATGAGAAATCTGAGCTGCCATGTGTTGATGTGACAGCCCTTCAGAGAAAGGTCTGAG 1254

1340 ACAGATTTAAGCTTAATCCAGAAATGTTTATGTGAACGTTAGTTACTGTGCGCAGGTGCC 1399

Db 1255 ACAGATTTAAGCTTAATCCAGAAATGTTTATGTGAACGTTAGTTACTGTGCGCAGGTGCC 1314

1400 ACGTCTAACTAGATTAGATGTGTGTTGAAACATCTACATCCACCACTTGTATTGCAAGTGT 1459

Db 1315 ACGTCTAACTAGATTAGATGTGTGTTGAAACATCTACATCCACCACTTGTATTGCAAGTGT 1374

1460 TCCCAAAATTTCTGTTCTACAGACATGTTGTGTGCGAGAAAATGAGACCAAGCACTTTA 1519

Db	1375	TCCCAATTTCTGTCTTACAAAGCATGTTGTGTGGCAGAAAACTGGAAACCAAGCATCTTA	1434
Qy	1520	ATTTTACTTCAGCCATCGTACCCCTTTCTGTAGCTGATGAGCCCGTCATCACAAAAGTCCCT	1579
Db	1435	ATTTTACTTCAGCCATCGTACCCCTTTCTGTAGCTGATGAGCCCGTCATCACAAAAGTCCCT	1494
Qy	1580	CTCATCATGTTCCAGTGAAGGCGCAGGAGTTGCTTTCTTCTGGCATAGTAAATTTTC	1639
Db	1495	CTCATCATGTTCCAGTGAAGGCGCAGGAGTTGCTTTCTTCTGGCATAGTAAATTTTC	1554
Qy	1640	TTGGAACTAATGTTTCACTTAATACATACCAAAATCTGGMAAGCCGTCTTACTCGAGC	1699
Db	1555	TTGGAACTAATGTTTCACTTAATACATACCAAAATCTGGMAAGCCGTCTTACTCGAGC	1614
Qy	1700	AGCAACAGGTGTACAGAAAGCAGACAGACAAGATCTTCCAGATCAGACAGAGAACCCCGAG	1759
Db	1615	AGCAACAGGTGTACAGAAAGCAGACAGACAAGATCTTCCAGATCAGACAGAGAACCCCGAG	1674
Qy	1760	CCCTGCTCTTCTCTTACACTGGCATGCTGATGAGATGCTGACATGCCCCATTTGGCTTCTT	1819
Db	1675	CCCTGCTCTTCTCTTACACTGGCATGCTGATGAGATGCTGACATGCCCCATTTGGCTTCTT	1734
Qy	1820	CCACATCGTGTGACATCGTCACTGAATGGGCTCGCTGATCCCTCAGTCCCAATTTCTA	1879
Db	1735	CCACATCGTGTGACATCGTCACTGAATGGGCTCGCTGATCCCTCAGTCCCAATTTCTA	1794
Qy	1880	GTACCCAAAGTGTCTCTGACAGAGCTGTCTATATGTGTCTGTGCTGCCCAAGGAGACCTCTG	1939
Db	1795	G-AACCAAGTGTCTCTGACAGAGCTGTCTATATGTGTCTGTGCTGCCCAAGGAGACCTCTG	1852
Qy	1940	CAGAGCCATTTTGGGTAAAGGAACATTTACAAAGAGCATTTGATCTTGTCTGAGGCT	1999
Db	1853	CAGAGCCATTTTGGGTAAAGGAACATTTACAAAGAGCATTTGATCTTGTCTGAGGCT	1912
Qy	2000	CAGAGCCCTTTTGAATAGGCTTCTGATGTCTATATTAAGAATTTCAAGCCAAATGTCTC	2059
Db	1913	CAGAGCCCTTTTGAATAGGCTTCTGATGTCTATATTAAGAATTTCAAGCCAAATGTCTC	1971
Qy	2060	AACGCAAAATTTACCAACCTTCTCTGAATATATTTTGTCTTAATTTATTTCTTTCTTT	2119
Db	1972	AACGCAAAATTTACCAACCTTCTCTGAATATATTTTGTCTTAATTTATTTCTTTCTTT	2031
Qy	2120	TTTTCTAAAGATTTGGCTCTGAATGAAATGACATTTTCCATCTGAACTGATGCAATATC	2179
Db	2032	TTTTCTAAAGATTTGGCTCTGAATGAAATGACATTTTCCAT-TGAATGATGCAATTTTC	2089
Qy	2180	ATTATGACCAATCCGATTAATTTATTTATTTATCTATATCTATATATGTCTTCCAGATA	2239
Db	2090	ATTATGACCAATCCGATTAATTTATTTATTTATCTATATATGTCTTCCAGATA	2149
Qy	2240	GGAGCTATGATCTTAATTAATTAAGTGGAGTCAAAAAGCTAAATGCAATGTTTGTGTGT	2299
Db	2150	GGAGCTATGATCTTAATTAATTAAGTGGAGTCAAAAAGCTAAATGCAATGTTTGTGTGT	2209
Qy	2300	ATTTTCAATACAACTTAATTTGTCTTGTAAATTAAGTTCAAGTGAATCTTGGATGG	2359
Db	2210	ATTTTCAATACAACTTAATTTGTCTTGTAAATTAAGTGAAT-AGTGAATCTTGGATGG	2268
Qy	2360	GATTTCTTGGTAAATTAATCTTGCACCTTGAATGTCTCATGTATCATATGAAATCGCTTTG	2419
Db	2269	GATTTCTTGGTAAATTAATCTTGCACCTTGAATGTCTCATGTATCATATGAAATCGCTTTG	2328
Qy	2420	ACATATCTTTTGAACAGAAAAAAGTAGCTGATGAGGGGAGAAATTAATGAGCTGTGTGAC	2479
Db	2329	ACATATCTTTTGAACAGAAAAAAGTAGCTGATGAGGGGAGAAATTAATGAGC-TGTGTGAC	2387
Qy	2480	TTTAGGGAGTAGCT 2493	
Db	2388	TTTAGGGAGTAGCT 2401	


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; Sequence 720, Application US/10044090
; Publication No. US20020137081A1
; GENERAL INFORMATION:
; APPLICANT: Olga Bandman
; TITLE OF INVENTION: GENES DIFFERENTIALLY EXPRESSED IN VASCULAR TISSUE ACTIVATION
; FILE REFERENCE: PA-0028 US
; CURRENT APPLICATION NUMBER: US/10/044,090
; CURRENT FILING DATE: 2002-01-09
; NUMBER OF SEQ ID NOS: 850
; SOFTWARE: PERL Program
; SEQ ID NO: 720
; LENGTH: 2645
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20020137081A1 197362.2
US-10-044-090-720
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Query Match      82.7% Score 2125.2; DB 13; Length 2645;
Best Local Similarity 99.3%; Pred. No. 0;
Matches 2207; Conservative 0; Mismatches 8; Indels 7; Gaps 7;

QY 272 CCGAGACGCGCTGCGGAGCCCGGATCCGCGCGCGCTGCACGACGCGCTGCAC 331
DB 1 CCGAGACGCGCTGCGGAGCCCGGATCCGCGCGCGCTGCACGACGCGCTGCAC 60

QY 332 CAGCTGGCGCGCGCGCGCTTCCAGCGGTGCAAGCTGTCTGCTGTCTGTCTG 391
DB 61 CAGCTGGCGCGCGCGCGCTTCCAGCGGTGCAAGCTGTCTGCTGTCTGTCTG 120

QY 392 GGTGGCAAGCGCGCGCGCGCAAGGCTTCTGTGCGCGACCCCGGATGACCT 451
DB 121 GGTGGCAAGCGCGCGCGCGCAAGGCTTCTGTGCGCGACCCCGGATGACCT 180

QY 452 GATACCGCGCAAGCGCTGCTGCAAGCTGTGCGCGCTGTCCAGAGGACCAAGCCGAC 511
DB 181 GATACCGCGCAAGCGCTGCTGCAAGCTGTGCGCGCTGTCCAGAGGACCAAGCCGAC 240

QY 512 TTGGGCGAGTTGAGGCGGACCGCGCGCGCGCGCTGTGCGCGCGCTGTGAGAGTGCA 571
DB 241 TTGGGCGAGTTGAGGCGGACCGCGCGCGCGCGCTGTGCGCGCGCTGTGAGAGTGCA 300

QY 572 GACGCGAGCGCGCTGCGAGGTGCGCGCAAGTGTGCGCGCGCGCGCGCGCGCTG 631
DB 301 GACGCGAGCGCGCTGCGAGGTGCGCGCAAGTGTGCGCGCGCGCGCGCGCGCTG 360

QY 632 CACCGCGGTGTGCGCAAGTGTGCGCGCAAGTGTGCGCGCGCGCGCGCGCGCGCTG 691
DB 361 CACCGCGGTGTGCGCAAGTGTGCGCGCAAGTGTGCGCGCGCGCGCGCGCGCGCTG 420

QY 692 GCGGTTTTGAGAGAGTACTCTTTTATTCCTGAAGCCCGGAGTGTGTAACCTGTC 751
DB 421 GCGGTTTTGAGAGAGTACTCTTTTATTCCTGAAGCCCGGAGTGTGTAACCTGTC 480

QY 752 GACCGAGTCCCAAAACAGATCCAGAAAGAAAGTTCCAGGTGTGTCATCGAAGAGACTG 811
DB 481 GACCGAGTCCCAAAACAGATCCAGAAAGAAAGTTCCAGGTGTGTCATCGAAGAGACTG 540

QY 812 GATGCGAGGCGGTAAACCAACGATGACCCAGTCAAGTGCAGATTCCTTAAGCTGTCTC 871
DB 541 GATGCGAGGCGGTAAACCAACGATGACCCAGTCAAGTGCAGATTCCTTAAGCTGTCTC 600

QY 872 TTAAAGTCAACACCTCTTGCATTTGCGCAATTAATTGTGCGCTCCGAAATAGCTAA 931
DB 601 TTAAAGTCAACACCTCTTGCATTTGCGCAATTAATTGTGCGCTCCGAAATAGCTAA 660

QY 932 ATCATTTAAGAGCTTTTATCTTTTGTGCGCAATTAATTGTGCGCTCCGAAATAGCTAA 991
DB 661 ATCATTTAAGAGCTTTTATCTTTTGTGCGCAATTAATTGTGCGCTCCGAAATAGCTAA 720

QY 992 GAATCGCAAAATCTCTGTGATGTAGACAGGTACTGCAAGACCGGCAACCTATGCC 1051
DB 720 GAATCGCAAAATCTCTGTGATGTAGACAGGTACTGCAAGACCGGCAACCTATGCC 1051
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DB 721 GAATCGCAAAATCTCTGTGATGTAGACAGGTACTGCAAGACCGGCAACCTATGCC 780
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DB 781 ATAGCACTGAGGTGAGTGGGGGTCTCCAGACCTGCCCCGAGCCATCAACCTGTGATC 840
QY 1112 CAGTGGCCAGAGACCTGTCAAACTTGAACCTTATCTGTGCTGCTGAGTGTGAG 1171
DB 841 CAGTGGCCAGAGACCTGTCAAACTTGAACCTTATCTGTGCTGCTGAGTGTGAG 900
QY 1172 GAGAGTTGCAAGGCTGACAGGCGCGGCGCATGTGAGAAACCAAGGAAAGCAACTT 1231
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QY 1232 GAGGCAACAGTGTGTTGCTCAAAAGGTAGAAATGTCTTACAGCGGATGAGAACTCT 1291
DB 961 GAGGCAACAGTGTGTTGCTTGTCAAAAGGTAGAAATGTCTTACAGCGGATGAGAACTCT 1020
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DB 1021 GGTGTCATGTGTTGATGACCAAGCCCTCCAGAGAAAGTCTGCGACAGATTTAAGC 1080
QY 1352 CTATTCAGAAATAGTTTATGAAACCGTATTACTGTGCGAGGTCACGCTTAACTAG 1411
DB 1081 CTATTCAGAAATAGTTTATGAAACCGTATTACTGTGCGAGGTCACGCTTAACTAG 1140
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DB 1201 GTTCTCAAGAGATGTTGTGCGGCAAGAACTGAGAACAGGACATTTAATTTACTGAG 1260
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QY 1592 CAGTGAAGGCGCAGCGATTTGCTTTCTTCTGCGCATAGTAAACATTTTCTTGAACATATG 1651
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QY 1652 TTTCACTTAATCAGTCAACCAATATCTGGAAGACCTGTCTTAAGTGAAGACAGCAAGTGT 1711
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QY 1712 ACAGAAAGCAGACCAAGATCTTCCAGATCAGCAGGAGAACCCCGAGCCTGTGCTCTC 1771
DB 1441 ACAGAAAGCAGACCAAGATCTTCCAGATCAGCAGGAGAACCCCGAGCCTGTGCTCTC 1500
QY 1772 CTACACTGGCATGTGATGAGATGTGATGATGCCCAATTGGCTTTCTTCAATCTGGTT 1831
DB 1501 CTACACTGGCATGTGATGAGATGTGATGATGCCCAATTGGCTTTCTTCAATCTGGTT 1560
QY 1832 GCACTGTCATGATGGGCTGCTGCTCATCTCCCTCAGTCCCAAAATTCAGTAGCAAGTGT 1891
DB 1561 GCACTGTCATGATGGGCTGCTGCTCATCTCCCTCAGTCCCAAAATTCAGTAGCAAGTGT 1619
QY 1892 TCTGCGAGAGGCTGTATATGTGCTGCTGCTGCCAAGGAGCACTCTGCGAGAGCAATTT 1951
DB 1619 TCTGCGAGAGGCTGTATATGTGCTGCTGCTGCCAAGGAGCACTCTGCGAGAGCAATTT 1678
QY 1952 TGGGTAAAGAACTTTAAGAAAGGATTTGATCTTGTGTCTGAGGCTCAGAGCCCTTTT 2011
DB 1679 TGGGTAAAGAACTTTAAGAAAGGATTTGATCTTGTGTCTGAGGCTCAGAGCCCTTTT 1738
QY 2012 GATAGGCTTGTGATGATCATTAAGACATTCAGAGCAAGATGCTCAACTGCAATAT 2071
DB 1739 GATAGGCTTGTGATGATCATTAAGACATTCAGAGCAAGATGCTCAACTGCAATAT 1797
QY 2072 ACCAAGCTTCTGATTAATTAATTTGCTTAATTAATTTCTTTTCTTTTCTTAAAGAA 2131
DB 1798 ACCAAGCTTCTGATTAATTAATTTGCTTAATTAATTTCTTTTCTTTTCTTAAAGAA 1857
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Db 1445 GTAAGAACACTTAAAGAGGAGGATTTGATCTTGTCTGAGGCTCAGAGCCCTTTGAT 1504
Qy 2015 AGGCTTCGATGTGATTCATTAAGACATTCAGCCAAAGATGCTCAACTGCAATATATACC 2074
Db 1505 AGGCTTCGGA-GTGATATATATAGACATTCAGCCAAAGATGCTCAACTGCAATATATACC 1563
Qy 2075 AACCTTCGGAATTAAT 2134
Db 1564 AACCTTCGGAATTAAT 1622
Qy 2135 GCTCTGAATGAATGACATTTTCATCTGAATCGATGATATCATTTAGCCATCCAG 2194
Db 1623 GCTCTGAATGAATGACATTTTCATCTGAATCGATGATATCATTTAGCCATCCAG 1681
Qy 2195 TAATTTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2254
Db 1682 TAATTTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1741
Qy 2255 TAATTTAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 2314
Db 1742 TAATTTAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1801
Qy 2315 ACTTAATTTGCTCTGTTAAATTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 2374
Db 1802 ACTTAATTTGCTCTGTTAAATTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 1860
Qy 2375 TAATTCGACCTGTAATGTCATGATATGATATGATATGATATGATATGATATGATATGATAT 2434
Db 1861 TAATTCGACCTGTAATGTCATGATATGATATGATATGATATGATATGATATGATATGATAT 1920
Qy 2435 GAAAAAAGTAGCTGAGTGAAGGAGGAAATTAAGAGCTTGATGACTTATAGGAGTAGT 2493
Db 1921 GAAAAAAGTAGCTGAGTGAAGGAGGAAATTAAGAGC-TGATGACTTATAGGAGTAGT 1978

RESULT 6
US-10-357-930-20954
; Sequence 20954, Application US/10357930
; Publication No. US20040259086A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Endege, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; FILE REFERENCE: MRI-0078CN
; CURRENT APPLICATION NUMBER: US/10/357,930
; PRIOR FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 2003-02-16
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20954
; LENGTH: 2199
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1, 2, 3, 4, 2198, 2199
; OTHER INFORMATION: n = A,T,C or G

US-10-357-930-20954
Query Match 61.4%; Score 1579.6; DB 18; Length 2199;
Best Local Similarity 97.1%; Pred. No. 0;
Matches 1748; Conservative 0; Mismatches 34; Indels 18; Gaps 13;
Qy 695 GTTTTGAGAGAGTGAATCTCTCTTATATCTGTAAGCCCGGAGAGTCTTGAACCTGTGAC 754
Db 187 GCTTGAGCAGAGTGAATCTCTTATATCTGTAAGCCCGGAGAGTCTTGAACCTGTGAC 246
Qy 755 CAGTGCCCAAAACAGATCCAGAAAGAAAGTCCAGGTTGTCATGGAAGAACTTGAT 814
Db 247 CAGTGCCCAAAACAGATCCAGAAAGAAAGTCCAGGTTGTCATGGAAGAACTTGAT 306
Qy 815 GCCAGGGTAAACACAGGTGACCCAGTCAATGAGATTCATTAAGGCTGTCTCTTA 874
Db 307 GCCAGGGTAAACACAGGTGACCCAGTCAATGAGATTCATTAAGGCTGTCTCTTA 366
Qy 875 AAGTACCAACCTCTTTCATTTGGCCAGTGAAGAAAGATCTTGAATGAACCAATATC 934
Db 367 AAGTACCAACCTCTTTCATTTGGCCAGTGAAGAAAGATCTTGAATGAACCAATATC 426
Qy 935 ATTAAGAGCTTTTATCTCTTGGCAATTATATGAGCCTCGAAATAGCTAAAGAA 994
Db 427 ATTAAGAGCTTTTATCTCTTGGCAATTATATGAGCCTCGAAATAGCTAAAGAA 486
Qy 995 TTGCCAAATCTCTGTGATTTGTAACAGTATGAGCAGACAGGACCACTATGCCATA 1054
Db 487 TTGCCAAATCTCTGTGATTTGTAACAGTATGAGCAGACAGGACCACTATGCCATA 546
Qy 1055 GCCATGAGGAGAGGAGGAGGCTCCAGACCTGCCCCAGGCCATACCTCTGTATCCAG 1114
Db 547 GCCATGAGGAGAGGAGGAGGCTCCAGACCTGCCCCAGGCCATACCTCTGTATCCAG 606
Qy 1115 TGCCAGAGGACCTGCTCAAACTGACCTTATCTGCTGCTCATCTGAGTCTGAGAG 1174
Db 607 TGCCAGAGGACCTGCTCAAACTGACCTTATCTGCTGCTCATCTGAGTCTGAGAG 666
Qy 1175 AGTTGCGAAGGCTGCGAGGCGCGGCGCATGGAAGAACAGGAAAGACAACTTGAG 1234
Db 667 AGTTGCGAAGGCTGCGAGGCGCGGCGCATGGAAGAACAGGAAAGACAACTTGAG 726
Qy 1235 GCCAAGTGTGTTTCGCAAAAGTGAAGTCTTACCAAGGAGTGGAGAAATCCAGG 1294
Db 727 GCCAAGTGTGTTTCGCAAAAGTGAAGTCTTACCAAGGAGTGGAGAAATCCAGG 786
Qy 1295 TGCCATGTGTGATGCGAGCCCTCCAGAGAAAGTCTGCGACAGATTAAGCTTA 1354
Db 787 TGCCATGTGTGATGCGAGCCCTCCAGAGAAAGTCTGCGACAGATTAAGCTTA 846
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1415 AGATGTTGTTGAACATCTACATCCACATTTGTTATGAGTGTTCCTCAATTTCTGTT 1474
1416 |||||
907 AGATGTTGTTGAACATCTACATCCACATTTGTTATGAGTGTTCCTCAATTTCTGTT 966
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1955 GTAAAGAACACTTAAAGAGGATGATGATGATGATGATGATGATGATGATGATGATGAT 2014
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2015 AGGCTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2074
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2374 TTATCTTGACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2433
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1910 AGAAAAAGTACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1969

RESULT 8
US-10-357-930-26800
; Sequence 26800, Application US/10357930
; Publication No. US20040259086A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Bindege, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; FILE REFERENCE: MRI-007BCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; PRIOR FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 09/785,276
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26800
; LENGTH: 2199
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1, 2, 3, 4, 2198, 2199
; OTHER INFORMATION: n = A,T,C or G
US-10-357-930-26800
Query Match 61.4%; Score 1579.6; DB 18; Length 2199;
Best Local Similarity 97.1%; Pred. No. 0;
Matches 1748; Conservative 0; Mismatches 34; Indels 18; Gaps 13;
QY 635 GTTTGAGAGAGTGAATCTCTTATTCCTGAAGCCCGGCGAGTGTGACCTGAGTGC 754
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QY 755 CAGTGCCTCAAAACAGATCCAGAAAGAAAGTTCCAGGTTGTGATCGAAGGAGCTGGAT 814
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DB 367 AAGTCACACCCCTCTTTCATTTGGCAGTGAAGAAAGTCTTTGATGATGAACCACTATC 426
QY 935 ATTAGAAGAGCTTTTACTCTTTGGGCAATTAATGAGGCTCCGAATAGCTTAAGAA 994
DB 427 ATTAGAAGAGCTTTTACTCTTTGGGCAATTAATGAGGCTCCGAATAGCTTAAGAA 486
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DB 547 GCCACTAGGTGATGAGGAGGCTCCAGCAGTCCGCCACCCAGCCATGACCTGTGTACAG 606
QY 1115 TGGCAGAGGACCTGTCAAACTGAACCTTATCTGTGCTCACTGATGATGATGAGAG 1174

Db 607 TGGCAGAGGACCTGCTCAAACTGACCTTATCTGTGCTCACTGTGATCTCTGAGAG 666
Qy 1175 AGGTGAGAGGCTGACGAGGCGGCGCATGAGAGACCAAGGAGAGAGCAAGCTTGGAG 1234
Db 667 AGGTGAGAGGCTGACGAGGCGGCGCATGAGAGACCAAGGAGAGAGCAAGCTTGGAG 726
Qy 1235 GCCAAGAGTGTGTGTGCAAAAGTGAATGTCCTACAGAGGAGTGAAGTCTCTGGC 1294
Db 727 GCCAAGAGTGTGTGTGCAAAAGTGAATGTCCTACAGAGGAGTGAAGTCTCTGGC 786
Qy 1295 TGGCATGTGGTTGATGACGAGGCGGCGCATGAGAGACCAAGGAGAGAGTGAAGCTTA 1354
Db 787 TGGCATGTGGTTGATGACGAGGCGGCGCATGAGAGACCAAGGAGAGAGTGAAGCTTA 846
Qy 1355 ATCCAGAAATGTTTATGTAAGACCGTATGTAATCTGTGCGAGGTGCCAGTCTAACTAGATT 1414
Db 847 ATCCAGAAATGTTTATGTAAGACCGTATGTAATCTGTGCGAGGTGCCAGTCTAACTAGATT 906
Qy 1415 AGATGTTGTTGAAACATCTACATCCACCTTTGTTATGCAAGTGTCCCAATTTCTGTT 1474
Db 907 AGATGTTGTTGAAACATCTACATCCACCTTTGTTATGCAAGTGTCCCAATTTCTGTT 966
Qy 1475 CTACAAGCATGTTGTGTGAGCAAAAAGTGAAGACCAAGGAGAGAGTGAAGTGAAGCTTA 1534
Db 967 CTACAAGCATGTTGTGTGAGCAAAAAGTGAAGACCAAGGAGAGAGTGAAGTGAAGCTTA 1026
Qy 1535 TGTGACCTCTTCTGATGATGAGACCCGTCATCAAAAGTCTCTCATCATGTTCCAG 1594
Db 1027 TGTGACCTCTTCTGATGATGAGACCCGTCATCAAAAGTCTCTCATCATGTTCCAG 1086
Qy 1595 TGAAGAGGCGAGATGCTTTCTTCTGAGATGTAACATTTCTTGAACATATGTTT 1654
Db 1087 TGAAGAGGCGAGATGCTTTCTTCTGAGATGTAACATTTCTTGAACATATGTTT 1146
Qy 1655 CACTTAATCACTACCAATATCTGAAGACCTGTCTTACTACAGACCAAGGAGTGAACA 1714
Db 1147 CACTTAATCACTACCAATATCTGAAGACCTGTCTTACTACAGACCAAGGAGTGAACA 1206
Qy 1715 GAAGCAGCAGACCAAGATCTTCCAGATCAGAGGAGAGCCCGAGCCTGTCTTCTCTTA 1774
Db 1207 GAAGCAGCAGACCAAGATCTTCCAGATCAGAGGAGAGCCCGAGCCTGTCTTCTCTTA 1266
Qy 1775 CACTGCGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1834
Db 1267 CACTGCGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1326
Qy 1835 CTGCTCATGATGAGGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1894
Db 1327 CTGCTCATGATGAGGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1385
Qy 1895 TGCAGAGGCTGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1954
Db 1386 TGCAGAGGCTGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1444
Qy 1955 GTTAAGGAACTTAACAAGAGGATGATGATGATGATGATGATGATGATGATGATGATGAT 2014
Db 1445 GTTAAGGAACTTAACAAGAGGATGATGATGATGATGATGATGATGATGATGATGATGAT 1504
Qy 2015 AGGCTTCTGATGATCATTAAGAGACATTAAGGAGAGATGATGATGATGATGATGATGAT 2074
Db 1505 AGGCTTCTGATGATCATTAAGAGACATTAAGGAGAGATGATGATGATGATGATGATGAT 1563
Qy 2075 AACCTTCTGATGATTAATATTTGCTTATTAATTTCTTTCTTTCTTTCTTTCTTTCTTA 2134
Db 1564 AA-CTTCTGATGATTAAT-TTTGCTTATTAATTTCTTTCTTTCTTTCTTTCTTTCTTA 1619
Qy 2135 GCTCTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2194
Db 1620 GCTCTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1678
Qy 2195 TAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 2254

Db 1679 TAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1738
Qy 2255 TAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2314
Db 1739 TAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1794
Qy 2315 ACTTAATTTGCTTTGTTAAATAAGTCAAGTGAATCTTGGAGGAGATTTCTT-GGTAA 2373
Db 1795 A--TTAATTTGCTTTGTTAAATAAGTCAAGTGAATCTTGGAGGAGATTTCTTGGGTAA 1850
Qy 2374 TTAATCTGACCTTGAATGCTCTCATGATTAATTAATTAATTAATTAATTAATTAATTA 2433
Db 1851 TTAATCTGACCTTGAATGCTCTCATGATTAATTAATTAATTAATTAATTAATTAATTA 1909
Qy 2434 AGAAAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 2493
Db 1910 AGAAAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1969

RESULT 9
US-10-357-930-27924
; Sequence 27924, Application US/10357930
; Publication No. US20040259086A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Endege, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; FILE REFERENCE: MRI-007BCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; PRIOR FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 09/785,276
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27924
; LENGTH: 2199
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1, 2, 3, 4, 2198, 2199
; OTHER INFORMATION: n = A,T,C or G
US-10-357-930-27924

Query Match 61.4%; Score 1579.6; DB 18; Length 2199;
Best Local Similarity 97.1%; Pred. No. 0;
Matches 1748; Conservative 0; Mismatches 34; Indels 18; Gaps 13;

Qy 695 GTTTGAGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 754
Db 187 GCTTGGACAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 246
Qy 755 CAGTGGCCCAAAAGATGCAAGAAAGAAAGTTCAGAGTGTTCCTTGAAGAGATGAT 814
Db 247 CAGTGGCCCAAAAGATGCAAGAAAGAAAGTTCAGAGTGTTCCTTGAAGAGATGAT 306
Qy 815 GCCACGGGTAAACCAAGGTGACCCAGTCAAGTGGAGATTCACCTTAAGGCTGCTCTTA 874

Db 307 GCCACGGGTAAACCAACGGTACCCAGTCAGTGGCAGATTCACTTAAGGCTGTCTCTTA 366
Qy 875 AAGTACCAACCTCTTGTGATTTGGCAGTGGAGAAAGATCTTGTATGATGAACCAATATC 934
Db 367 AAGTACCAACCTCTTGTGATTTGGCAGTGGAGAAAGATCTTGTATGATGAACCAATATC 426
Qy 935 ATTGAAGAGCTTTTACTCTTTGGGCAATTAATATGAGCTCCGAAATAGCTAAAGAA 994
Db 427 ATTGAAGAGCTTTTACTCTTTGGGCAATTAATATGAGCTCCGAAATAGCTAAAGAA 486
Qy 995 TCTGCAAAATCTCTGTGATTTGAGACAGGTACTGGACACAGCGGCCCTATGCCATA 1054
Db 487 TCTGCAAAATCTCTGTGATTTGAGACAGGTACTGGACACAGCGGCCCTATGCCATA 546
Qy 1055 GCCACTGAGGTGATGGGGGTCTCCAGACCTGGCCCCACCATCACTCTGTGACAG 1114
Db 547 GCCACTGAGGTGATGGGGGTCTCCAGACCTGGCCCCACCATCACTCTGTGACAG 606
Qy 1115 TGGCCAGAGGACTGTCTCAAACTTGAACCTTATCCTGTGCTCACTGTGATCTGAGAG 1174
Db 607 TGGCCAGAGGACTGTCTCAAACTTGAACCTTATCCTGTGCTCACTGTGATCTGAGAG 666
Qy 1175 AGGTGAGAGAGCTGGACGGGCCGGGGAGTGAAGAACCAAGGAAAGCAAACTTGAAG 1234
Db 667 AGGTGAGAGAGCTGGACGGGCCGGGGAGTGAAGAACCAAGGAAAGCAAACTTGAAG 726
Qy 1235 GCCAACAGTGTGTTTGTCTCAAAAGGTGAATGTCCTACAGAGGAGTGAAGATCCGTGC 1294
Db 727 GCCAACAGTGTGTTTGTCTCAAAAGGTGAATGTCCTACAGAGGAGTGAAGATCCGTGC 786
Qy 1295 TGGCATGTGTTATGTCAGACCCCTCCAGAGAAAGGTCTGACAGCGGATTAACCTTA 1354
Db 787 TGGCATGTGTTATGTCAGACCCCTCCAGAGAAAGGTCTGACAGCGGATTAACCTTA 846
Qy 1355 ATCCAGAAATGTTTGTGTAACCGTAGTACTCTGGCAGAGTCCACGCTCTTAATGATT 1414
Db 847 ATCCAGAAATGTTTGTGTAACCGTAGTACTCTGGCAGAGTCCACGCTCTTAATGATT 906
Qy 1415 AGATGTTGTTGAACAATCTACATCCACATTTGTTATGACAGTGTCCCAAAATTTGTT 1474
Db 907 AGATGTTGTTGAACAATCTACATCCACATTTGTTATGACAGTGTCCCAAAATTTGTT 966
Qy 1475 CTACAGAGCATGTTGTGGCAGAAAACTGGAGACCAAGGCACTTAAATTTTACTGACCA 1534
Db 967 CTACAGAGCATGTTGTGGCAGAAAACTGGAGACCAAGGCACTTAAATTTTACTGACCA 1026
Qy 1535 TCGTACCTCTTCTGATGATGAGACCGTCATCAACAAGTCCCTCATCATATGTTCCAG 1594
Db 1027 TCGTACCTCTTCTGATGATGAGACCGTCATCAACAAGTCCCTCATCATATGTTCCAG 1086
Qy 1595 TGAAGAGGCAAGCATGCTTTCTTCTGTGATAGTAAACATTTTCTGGAAATGTTT 1654
Db 1087 TGAAGAGGCAAGCATGCTTTCTTCTGTGATAGTAAACATTTTCTGGAAATGTTT 1146
Qy 1655 CACTTAATCACTACCAAAATATCTGGAAGCTGTCTTATCTGACAGCAACCAAGTGTCA 1714
Db 1147 CACTTAATCACTACCAAAATATCTGGAAGCTGTCTTATCTGACAGCAACCAAGTGTCA 1206
Qy 1715 GAAGCAGCAGACAAAGATCTTCCAGATCAGCAGGAGAGACCCCGAGCTGTCTCTCTTA 1774
Db 1207 GAAGCAGCAGACAAAGATCTTCCAGATCAGCAGGAGAGACCCCGAGCTGTCTCTCTTA 1266
Qy 1775 CACTGAGCATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1834
Db 1267 CACTGAGCATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1326
Qy 1835 CTCGTCATGATGAGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1894
Db 1327 CTCGTCATGATGAGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1385
Qy 1895 TGCAGAGGCTGTCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1954
Db 1386 TGCAGAGGCTGTCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1444

Qy 1955 GTAAGGACACTTACAAAGAGCATGATCTTGTGTGAGGCTCAGAGCCCTTTGAT 2014
Db 1445 GTAAGGACACTTACAAAGAGCATGATCTTGTGTGAGGCTCAGAGCCCTTTGAT 1504
Qy 2015 AGGCTTCTGATGATCTTCAATTAAGCATTCAGAGCAAGATGCTCAACTGCAATATACC 2074
Db 1505 AGGCTTCTGATGATCTTCAATTAAGCATTCAGAGCAAGATGCTCAACTGCAATATACC 1563
Qy 2075 AACCTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2134
Db 1564 AA-CTTCTGATGATGAT- TTTGCTTATTAATTTCTTTTCTTTTCTTAAAGTA--TG 1619
Qy 2135 GCTGTGAATGAGTSCAATTTTCATCTGAACTGATGATCATATTAAGCAATCCAG 2194
Db 1620 GCTGTGAATGAGTSCAATTTTCAT- TGAATGATGATCATATTAAGCAATCCAG 1678
Qy 2195 TAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2254
Db 1679 TAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1738
Qy 2255 TAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2314
Db 1739 TAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1794
Qy 2315 ACTTAATTTGCTTGTGTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2373
Db 1795 A--TTAATTTGCTTGTGTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1850
Qy 2374 TTAATTTGCTTGTGTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2433
Db 1851 TTAATTTGCTTGTGTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1909
Qy 2434 AGAAAAAGTACTGATGAGGAGAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2493
Db 1910 AGAAAAAGTACTGATGAGGAGAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1969

RESULT 10
US-10-277-032-3
; Sequence 3, Application US/10277032
; Publication No. US20030087294A1
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CD001305 DIV
; CURRENT APPLICATION NUMBER: US/10/277, 032
; PRIOR FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/984, 880
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 20966
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-277-032-3

Query Match 44.0%; Score 1130.4; DB 14; Length 20966;
Best Local Similarity 98.1%; Pred. No. 2,3e-268;
Matches 1228; Conservative 0; Mismatches 16; Indels 8; Gaps 8;

Qy 1243 TGTGTTTGTCAAAAGGTGAGAAATGCTTCAACAGCGATGAGAGATCTGGCTGCCATGT 1302
Db 17724 TTTGCTGTCTCCAGAGGTGAGAAATGCTTCAACAGCGATGAGAGATCTGGCTGCCATGT 17783
Qy 1303 GGTGATGACAGGCTCCAGAGAAAGTCTGACAGAGTAAAGCTTAATCCAGAA 1362
Db 17784 GGTGATGACAGGCTCCAGAGAAAGTCTGACAGAGTAAAGCTTAATCCAGAA 17843
Qy 1363 TAGTTTAAGTGAACCGTAGTACTCTGACAGGTGCCAGTCTAACTAATTAAGATGTTG 1422

Db 17844 TAGTTTAGAGAACCGTAGTACTCTGGCCAGGCGCACGCTACATAGATATGTTG 17903
QY 1423 TTTGAAACATCTACATCCACCATTGTTATGACAGTGTCCCAAAATTTCTGTTACAAAGC 1482
Db 17904 TTTGAAACATCTACATCCACCATTGTTATGACAGTGTCCCAAAATTTCTGTTACAAAGC 17963
QY 1483 ATGTGTGTGGCGAGAAACCTGAGACAGGACATTTTAATTTTACTGAGCATGTGACC 1542
Db 17964 ATGTGTGTGGCGAGAAACCTGAGACAGGACATTTTAATTTTACTGAGCATGTGACC 18023
QY 1543 TC-TTCTGACTGATGAGACCCGCTCATCAAAAGTCCCTCATCATGTTCCAGTGAAGG 1601
Db 18024 TGTCTTGAATGATGAGACCCGCTCATCAAAAGTCCCTCATCATGTTCCAGTGAAGG 18083
QY 1602 CCAAGCGATGCTTTCTTCTGCGCATAGTAAACATTTTCTTGAAACATATGTTTCACTTAA 1661
Db 18084 CCAAGCGATGCTTTCTTCTGCGCATAGTAAACATTTTCTTGAAACATATGTTTCACTTAA 18143
QY 1662 TCACTACCAAAATATCTGGAAGACCTGTCTTACTGACAGACAGGATGTAAGAAAGAG 1721
Db 18144 TCACTACCAAAATATCTGGAAGACCTGTCTTACTGACAGACAGGATGTAAGAAAGAG 18203
QY 1722 CAGACAAGATCTTCCAGATCAGCAGGAGACCCCGAGAGCTGTGCTTCTCTACACTGAGC 1781
Db 18204 CAGACAAGATCTTCCAGATCAGCAGGAGACCCCGAGAGCTGTGCTTCTCTACACTGAGC 18263
QY 1782 ATGCTGATGAGATGTGACATGCCCCACATGAGCTTCTTCCACATGTGAGTGCACCTGTCA 1841
Db 18264 ATGCTGATGAGATGTGACATGCCCCACATGAGCTTCTTCCACATGTGAGTGCACCTGTCA 18323
QY 1842 TGAATGGCTGCGTGCATCTCCCTCAAGTCCCAAAATTTCTAGTACCAATGTTCCTGCGAG 1901
Db 18324 TGAATGGCTGCGTGCATCTCCCTCAAGTCCCAAAATTTCTAGTACCAATGTTCCTGCGAG 18382
QY 1902 GCTGTCAATGTGCTGCTGGCTGCCAAGGAGACACTCTGCGAGAGCAATTTTGGGTAAAGA 1961
Db 18383 GCTGTCAATGTGCTGCTGGCTGCCAAGGAGACACTCTGCGAGAGCAATTTTGGGTAAAGA 18441
QY 1962 AGCACTTACAAAGAGGATGATCTGTGTGTGAGGCTCAGAGGCTTTTGTATAGGCTTC 2021
Db 18442 AGCACTTACAAAGAGGATGATCTGTGTGTGAGGCTCAGAGGCTTTTGTATAGGCTTC 18501
QY 2022 TGAATGTATCTATTAACATTTCAAGCAGAGATGCTCCAACTGCAATATATACCACTTC 2081
Db 18502 TGAATGTATCTATTAACATTTCAAGCAGAGATGCTCCAACTGCAATATATACCACTTC 18560
QY 2082 TCTGAATTAATTTTGTGCTTATTTATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTG 2141
Db 18561 TCTGAATTAATTTTGTGCTTATTTATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTG 18619
QY 2142 ATAGATGACATTTTCCATCTGAATGATGATCATATTTAGCCAAATCCAGTAAATTA 2201
Db 18620 ATAGATGACATTTTCCATCTGAATGATGATCATATTTAGCCAAATCCAGTAAATTA 18678
QY 2202 TTTTATATTAATCTATATATATATATGTTTCTCTCAGATAGAGAGCTATATATTAATTA 2261
Db 18679 TTTTATATTAATCTATATATATATATGTTTCTCTCAGATAGAGAGCTATATATTAATTA 18738
QY 2262 AAGTGAAGTCAAAACGCTAATGCAATGTTTGTGTGTAATTTTCAATACCAAACTTAAT 2321
Db 18739 AAGTGAAGTCAAAACGCTAATGCAATGTTTGTGTGTAATTTTCAATACCAAACTTAAT 18798
QY 2322 TTGTCTTGTAAATTAAGTTCAAGTGAATCTTGAAGTGGAAATTTCTTGTAATATATCTTG 2381
Db 18799 TTGTCTTGTAAATTAAGTTCAAGTGAATCTTGAAGTGGAAATTTCTTGTAATATATCTTG 18857
QY 2382 CACTTGAATGTCTCATATATATATATATATGTTTGTGATATCTTTAGACAGAAAGAA 2441
Db 18858 CACTTGAATGTCTCATATATATATATATATGTTTGTGATATCTTTAGACAGAAAGAA 18917
QY 2442 GTAGCTGATGAGGGGAGAAATATATAGCTGTGTGACTTAAAGGAGTAGCT 2493

Db 18918 GTAGCTGATGAGGGGAGAAATATATAGAC-TGTGTACTTTAGAGGAGTAGGT 18968
RESULT 11
US-10-681-223-3
; Sequence 3, Application US/10681223
; Publication No. US20040081999A1
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: C001305 DIV-II
; CURRENT APPLICATION NUMBER: US/10/681,223
; PRIOR FILING DATE: 2003-10-09
; PRIOR APPLICATION NUMBER: 10/277,032
; PRIOR FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/984,880
; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ. ID NOS.: 4
; SOFTWARE: PASCSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 20966
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-681-223-3
Query Match 44.0%; Score 1130.4; DB 17; Length 20966;
Best Local Similarity 98.1%; Pred. No. 2.3e-268;
Matches 1228; Conservative 0; Mismatches 16; Indels 8; Gaps 8;
QY 1243 TGTGTTTCGTCACAAAGGTATAAATGTCTTACACAGCGGATGAGAAATCTGCGCCATGT 1302
Db 17724 TTTGCGCTGCTCCAGGAGTAAATGTCTTACACAGCGGATGAGAAATCTGCGCCATGT 17783
QY 1303 GGTGATGCCAGCCCTCCAGAGAAAGGTCTGACAGACAGTATTAAGCTTAATCCAGAA 1362
Db 17784 GGTGATGCCAGCCCTCCAGAGAAAGGTCTGACAGACAGTATTAAGCTTAATCCAGAA 17843
QY 1363 TAGTTTATGTAACCGTAGTACTGTGCGCAGGTGCCAGCTTAATAGATATGATGTTG 1422
Db 17844 TAGTTTATGTAACCGTAGTACTGTGCGCAGGTGCCAGCTTAATAGATATGATGTTG 17903
QY 1423 TTTGAAACATCTACATCCACCATTGTTATGACAGTGTCCCAAAATTTCTGTTACAAAGC 1482
Db 17904 TTTGAAACATCTACATCCACCATTGTTATGACAGTGTCCCAAAATTTCTGTTACAAAGC 17963
QY 1483 ATGTGTGTGGCGAGAAACCTGAGACAGGACATTTTAATTTTACTGAGCATGTGACC 1542
Db 17964 ATGTGTGTGGCGAGAAACCTGAGACAGGACATTTTAATTTTACTGAGCATGTGACC 18023
QY 1543 TC-TTCTGACTGATGAGACCCGCTCATCAAAAGTCCCTCATCATGTTCCAGTGAAGG 1601
Db 18024 TGTCTTGAATGATGAGACCCGCTCATCAAAAGTCCCTCATCATGTTCCAGTGAAGG 18083
QY 1602 CCAAGCGATGCTTTCTTCTGCGCATAGTAAACATTTTCTTGAAACATATGTTTCACTTAA 1661
Db 18084 CCAAGCGATGCTTTCTTCTGCGCATAGTAAACATTTTCTTGAAACATATGTTTCACTTAA 18143
QY 1662 TCACTACCAAAATATCTGGAAGACCTGTCTTACTGACAGACAGGATGTAAGAAAGAG 1721
Db 18144 TCACTACCAAAATATCTGGAAGACCTGTCTTACTGACAGACAGGATGTAAGAAAGAG 18203
QY 1722 CAGACAAGATCTTCCAGATCAGCAGGAGACCCCGAGAGCTGTGCTTCTCTACACTGAGC 1781
Db 18204 CAGACAAGATCTTCCAGATCAGCAGGAGACCCCGAGAGCTGTGCTTCTCTACACTGAGC 18263
QY 1782 ATGCTGATGAGATGTGACATGCCCCACATGAGCTTCTTCCACATGTGAGTGCACCTGTCA 1841
Db 18264 ATGCTGATGAGATGTGACATGCCCCACATGAGCTTCTTCCACATGTGAGTGCACCTGTCA 18323
QY 1842 TGAATGGCTGCGTGCATCTCCCTCAAGTCCCAAAATTTCTAGTACCAATGTTCCTGCGAG 1901

QY	1413	TTGATGTTGTTGAAACATCTACATCCACTTTGTTATGCAAGTGTCCAAATTTCTG	1472
Db	60	TTGATGTTGTTGAAACATCTACATCCACTTTGTTATGCAAGTGTCCAAATTTCTG	119
QY	1473	TTCTACAGCATGTTGTGTGGCAGAAAACTGGAGACAGGCACTTTAATTTTACTTAGC	1532
Db	120	TTCTACAGCATGTTGTGTGGCAGAAAACTGGAGACAGGCACTTTAATTTTACTTAGC	179
QY	1533	CATCGTACCTCTTCTGACTGATGAGACCCGCTCATCAAAAGTCCCTCATCATGTTCC	1592
Db	180	CATCGTACCTCTTCTGACTGATGAGACCCGCTCATCAAAAGTCCCTCATCATGTTCC	229
QY	1593	AGTGAGAGCCGACGCGATGCTTCTTCTGGGCATAGTAAACATTTTCTTGGAACTATGT	1652
Db	240	AGTGAGAGCCGACGCGATGCTTCTTCTGGGCATAGTAAACATTTTCTTGGAACTATGT	299
QY	1653	TTCACTTAATCACTACAAATATCTGGAAGACCTGTCTTACTCAGACAGCAGGTGTAT	1712
Db	300	TTCACTTAATCACTACAAATATCTGGAAGACCTGTCTTACTCAGACAGCAGGTGTAT	359
QY	1713	CAGAAACAGCAGACAAGATCTTCCAGATCAGCAGGGAGACCCCGGAGCCTCTGCTTCTCC	1772
Db	360	CAGAAACAGCAGACAAGATCTTCCAGATCAGCAGGGAGACCCCGGAGCCTCTGCTTCTCC	419
QY	1773	TACACTGGCATGCTGATAGATCGGACATGCCCCCATATGAGCTTCTTCCACATCTGGTTG	1832
Db	420	TACACTGGCATGCTGATAGATCGGACATGCCCCCATATGAGCTTCTTCCACATCTGGTTG	479
QY	1833	CACCTGTCATGATGGGCTCGCTGCATCTCCCTCAGTCCCAATTTAGTAGCCAACTGTT	1892
Db	480	CACCTGTCATGATGGGCTCGCTGCATCTCCCTCAGTCCCAATTTAGTAGCCAACTGTT	538
QY	1893	CCTCGAGAGGCGTGTATGTGCTCGGCGTCCGCAAGGAGACCTCCGACAGCATTTT	1952
Db	539	CCTCGAGAGGCGTGTATGTGCTCGGCGTCCGCAAGGAGACCTCCGACAGCATTTT	597
QY	1953	GGGTAAAGAACACTTACAAAGAGGCAATGATCTTGTGTCTGAGGCTCAGAGCCCTTTTG	2012
Db	598	GGGTAAAGAACACTTACAAAGAGGCAATGATCTTGTGTCTGAGGCTCAGAGCCCTTTTG	657
QY	2013	ATAGGCTCTGATGTCAATTCATTAAGACATTTCAAGCAGAGTCTCCAACTGCAAAATATA	2072
Db	658	ATAGGCTCTCTGA-TGTCAATATATAAGACATTTCAAGCAGAGTCTCCAACTGCAAAATATA	716
QY	2073	CCAACTCTCTGATATATATTTTGGCTATTTATATTTCTTTTCTTTTCTTAAAGAT	2132
Db	717	CCAACTCTCTCTGATATATATTTTGGCTATTTATATTTCTTTTCTTTTCTTAAAGAT	775
QY	2133	TGGCTCTGAATAGATGCACATTTTCCATCTGAATGAGATGCAATCATTTAGCCAACTCC	2192
Db	776	TGGCTCTGAATAGATGCACATTTTCCAT-TGAATCTGATGCAATTCATTTAGCCAACTCC	834
QY	2193	AGTAAATTAATTAATTAATCTATATACATAATATGTTTCTCGACATPAGAGCTATGATTC	2252
Db	835	AGTAAATTAATTAATTAATCTATATACATAATATGTTTCTCGACATPAGAGCTATGATTC	894
QY	2253	ATTAAATTAAGTGAAGTCAAAACGCTAATGCAATGTTGTGTGTATTTTTCATTTACAC	2312
Db	895	ATTAAATTAAGTGAAGTCAAAACGCTAATGCAATGTTGTGTGTATTTTTCATTTACAC	954
QY	2313	AAACTTAATTTGTCTTTTAAATAGTTCAAGTGATCTTGGAGTGGGATTTCTTGGTAA	2372
Db	955	AAACTTAATTTGTCTTTTAAATAGTTCA-TAGTGAATCTTGGAGTGGGATTTCTTGGTAA	1013

QY	2373	ATTATCTGCAGCTGAAGTCTCAGAGATTAACATATGAGAAATCGCTTTGACATATCTTTAGA	2432
Db	1014	ATTATCTGCAGCTGAAGTCTCAGATTAACATATGAGAAATCGCTTTGACATATCTTTAGA	1073
QY	2433	CAGAAAAACGATGCTGATGAGGGGAAATATAGACTTGTGTGACTTTTAGGGAGTAGC	2492
Db	1074	CAGAAAAACGATGCTGATGAGGGGAAATATAGACTC-TGTGTGACTTTTAGGGAGTAGG	1132

Db 1133 T 1133

RESULT 13
US-10-357-930-33519
; Sequence 33519, Application US/10357930
; Publication No. US20040259086A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Endege, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; TITLE OF INVENTION: HUMAN PROSTATE CANCER
; FILE REFERENCE: MRI-007BCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; PRIOR FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 09/785,276
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33519
; LENGTH: 454
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-357-930-33519

Query Match 16.0%; Score 411.4; DB 18; Length 454;
Best Local Similarity 98.6%; Pred. No. 3.1e-91;
Matches 415; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 1103 CCTGTGTACCAAGTGGCCAGAGACCTGTCTTAACCTTATCTGCTGCTCACTGTG 1162
Db 34 CCAGAGTACCAAGTGGCCAGAGACCTGTCTTAACCTTATCTGCTGCTCACTGTG 93
QY 1163 AGTCTGAGAGAGGTTGCAAGAGCTGCAAGGCGCGGGCATGGAAGAACCAAGGAAGAA 1222
Db 94 AGTCTGAGAGAGGTTGCAAGAGCTGCAAGGCGCGGGCATGGAAGAACCAAGGAAGAA 153
QY 1223 GCAGAACTTGAGGCCAACAAGTGTGTTTCTCAAAAGGTAGAAAATGTCTCAACAGCGATG 1282
Db 154 GCAGAACTTGAGGCCAACAAGTGTGTTTCTCAAAAGGTAGAAAATGTCTCAACAGCGATG 213
QY 1283 GAGAACTCTGCTGCGCATGTGTGTTGATGCCAGCCCTCCAGAGAAAAGTCTCTGACAGA 1342
Db 214 GAGAACTCTGCTGCGCATGTGTGTTGATGCCAGCCCTCCAGAGAAAAGTCTCTGACAGA 273
QY 1343 GTATTAAAGCTTATCCAGAAATAGTTTAAAGAACCGGATTAATCTCTGCGCAAGGTCCACG 1402
Db 274 GTATTAAAGCTTATCCAGAAATAGTTTAAAGAACCGGATTAATCTCTGCGCAAGGTCCACG 333
QY 1403 TCTAAGTATGATGTGTGTTGAACAATCTACATCCACCATTTGTTATGAGGTTC 1462
Db 334 TCTAAGTATGATGTGTGTTGAACAATCTACATCCACCATTTGTTATGAGGTTC 393
QY 1463 CAATTTCTGTTCTTACAGCATGTGTGTGGCAAGAAAATGAGAGACCAAGCATCTTAAT 1522
Db 394 CAATTTCTGTTCTTACAGCATGTGTGTGGCAAGAAAATGAGAGACCAAGCATCTTAAT 453
QY 1523 T 1523

Db 454 T 454

RESULT 14
US-10-357-930-40840
; Sequence 40840, Application US/10357930
; Publication No. US20040259086A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Endege, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; TITLE OF INVENTION: HUMAN PROSTATE CANCER
; FILE REFERENCE: MRI-007BCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; PRIOR FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 09/785,276
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 40840
; LENGTH: 454
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-357-930-40840

Query Match 16.0%; Score 411.4; DB 18; Length 454;
Best Local Similarity 98.6%; Pred. No. 3.1e-91;
Matches 415; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 1103 CCTGTGTACCAAGTGGCCAGAGACCTGTCTTAACCTTATCTGCTGCTCACTGTG 1162
Db 34 CCAGAGTACCAAGTGGCCAGAGACCTGTCTTAACCTTATCTGCTGCTCACTGTG 93
QY 1163 AGTCTGAGAGAGGTTGCAAGAGCTGCAAGGCGCGGGCATGGAAGAACCAAGGAAGAA 1222
Db 94 AGTCTGAGAGAGGTTGCAAGAGCTGCAAGGCGCGGGCATGGAAGAACCAAGGAAGAA 153
QY 1223 GCAGAACTTGAGGCCAACAAGTGTGTTTCTCAAAAGGTAGAAAATGTCTCAACAGCGATG 1282
Db 154 GCAGAACTTGAGGCCAACAAGTGTGTTTCTCAAAAGGTAGAAAATGTCTCAACAGCGATG 213
QY 1283 GAGAACTCTGCTGCGCATGTGTGTTGATGCCAGCCCTCCAGAGAAAAGTCTCTGACAGA 1342
Db 214 GAGAACTCTGCTGCGCATGTGTGTTGATGCCAGCCCTCCAGAGAAAAGTCTCTGACAGA 273
QY 1343 GTATTAAAGCTTATCCAGAAATAGTTTAAAGAACCGGATTAATCTCTGCGCAAGGTCCACG 1402
Db 274 GTATTAAAGCTTATCCAGAAATAGTTTAAAGAACCGGATTAATCTCTGCGCAAGGTCCACG 333
QY 1403 TCTAAGTATGATGTGTGTTGAACAATCTACATCCACCATTTGTTATGAGGTTC 1462
Db 334 TCTAAGTATGATGTGTGTTGAACAATCTACATCCACCATTTGTTATGAGGTTC 393
QY 1463 CAATTTCTGTTCTTACAGCATGTGTGTGGCAAGAAAATGAGAGACCAAGCATCTTAAT 1522
Db 394 CAATTTCTGTTCTTACAGCATGTGTGTGGCAAGAAAATGAGAGACCAAGCATCTTAAT 453
QY 1523 T 1523

Db 361 CCAAGTCTCAGAGCTGCTGCTAATGCCCCGGGCGCAGCGCGCGCAAGCAAG 420
Qy 421 CTTCTGCTGCGGGAACCCCTTGATGACCTTGAACCCGCAAGCGCTGCTGAGCTGCT 480
Db 421 CTTCTGCTGCGGGAACCCCTTGATGACCTTGAACCCGCAAGCGCTGCTGAGCTGCT 480
Qy 481 GGGCGCTGCGGGAACCCCTTGATGACCTTGAACCCGCAAGCGCTGCTGAGCTGCT 540
Db 481 GGGCGCTGCGGGAACCCCTTGATGACCTTGAACCCGCAAGCGCTGCTGAGCTGCT 540
Qy 541 CCAAGTCTGCGGGAACCCCTTGATGACCTTGAACCCGCAAGCGCTGCTGAGCTGCT 600
Db 541 CCAAGTCTGCGGGAACCCCTTGATGACCTTGAACCCGCAAGCGCTGCTGAGCTGCT 600
Qy 601 AAGGCTGCTGCGGGAACCCCTTGATGACCTTGAACCCGCAAGCGCTGCTGAGCTGCT 660
Db 601 AAGGCTGCTGCGGGAACCCCTTGATGACCTTGAACCCGCAAGCGCTGCTGAGCTGCT 660
Qy 661 CCGTGTCTTCCGGAACCGGGAACCGGCGGCTTTTGAAGAGAGTACCTCTTAT 720
Db 661 CCGTGTCTTCCGGAACCGGGAACCGGCGGCTTTTGAAGAGAGTACCTCTTAT 720
Qy 721 TCTTGAAGCCGCGGGAACCGGGAACCGGCGGCTTTTGAAGAGAGTACCTCTTAT 780
Db 721 TCTTGAAGCCGCGGGAACCGGGAACCGGCGGCTTTTGAAGAGAGTACCTCTTAT 780
Qy 781 AAAGTTCAGGTTTGTGCAATGAGAGAGTGAAGTGCAGCGGTTAAACCAAGGTTGACCA 840
Db 781 AAAGTTCAGGTTTGTGCAATGAGAGAGTGAAGTGCAGCGGTTAAACCAAGGTTGACCA 840
Qy 841 GTGAGTGGCAGATTCACTTAAAGGCTGCTTAAAGTCAACCCCTTGTGCAATTTGACCA 900
Db 841 GTGAGTGGCAGATTCACTTAAAGGCTGCTTAAAGTCAACCCCTTGTGCAATTTGACCA 900
Qy 901 GTGAGGAGAAATCTTGTATGATGAACCAATATCACTTAAAGGCTTTTAACTTTTGGG 960
Db 901 GTGAGGAGAAATCTTGTATGATGAACCAATATCACTTAAAGGCTTTTAACTTTTGGG 960
Qy 961 CAATTAATATGAGGCTTCCGAAATAGCTAAAGATCTGCAATCTCTGTATGATGATA 1020
Db 961 CAATTAATATGAGGCTTCCGAAATAGCTAAAGATCTGCAATCTCTGTATGATGATA 1020
Qy 1021 CAGGTATCTGCAAGCAAGGCGCACTATGCAATGAGCACTGAGTGAAGGAGGCTCTCA 1080
Db 1021 CAGGTATCTGCAAGCAAGGCGCACTATGCAATGAGCACTGAGTGAAGGAGGCTCTCA 1080
Qy 1081 GCACTGCGCCCGCAAGGCGCACTATGCAATGAGCACTGAGTGAAGGAGGCTCTCA 1140
Db 1081 GCACTGCGCCCGCAAGGCGCACTATGCAATGAGCACTGAGTGAAGGAGGCTCTCA 1140
Qy 1141 CCTTATCTGCTGCTCACTGTATGATGAGTCTGAGAGAGTGGCAAGGCTGCGGCGG 1200
Db 1141 CCTTATCTGCTGCTCACTGTATGATGAGTCTGAGAGAGTGGCAAGGCTGCGGCGG 1200
Qy 1201 CATGAGAAAGCAAGGAGAAAGTGAAGCACTTGAAGGCAAGTGTGTTTCCGCAAAAGT 1260
Db 1201 CATGAGAAAGCAAGGAGAAAGTGAAGCACTTGAAGGCAAGTGTGTTTCCGCAAAAGT 1260
Qy 1261 AAGAAATGCTCAACGCGGATGAGAAATCTGCGCATGTGTTGATGCAAGCCCTC 1320
Db 1261 AAGAAATGCTCAACGCGGATGAGAAATCTGCGCATGTGTTGATGCAAGCCCTC 1320
Qy 1321 CAGAGAAAGTCTGCAAGCAAGTATTAAGCTTAAAGCTTAAAGTATTAAGTAAAGCT 1380
Db 1321 CAGAGAAAGTCTGCAAGCAAGTATTAAGCTTAAAGCTTAAAGTATTAAGTAAAGCT 1380
Qy 1381 GTTACTGCGGCAAGTCTGCAAGTATTAAGTATTAAGTATTAAGTATTAAGTATTAAG 1440
Db 1381 GTTACTGCGGCAAGTCTGCAAGTATTAAGTATTAAGTATTAAGTATTAAGTATTAAG 1440
Qy 1441 AAGCTTGTATGAGTGTCCAAATTTCTGTTCTAAGAGCAATGTTGTGCGAGAAA 1500
Db 1441 AAGCTTGTATGAGTGTCCAAATTTCTGTTCTAAGAGCAATGTTGTGCGAGAAA 1500

Qy 1501 CTGAGAACCAAGGATCTTAATTTTACTTACGCAATGTAACCTTCTGATGATGAGACC 1560
Db 1501 CTGAGAACCAAGGATCTTAATTTTACTTACGCAATGTAACCTTCTGATGATGAGACC 1560
Qy 1561 CGTATATCAAAAGTCTCTGATATGATGATGATGATGATGATGATGATGATGATGAT 1620
Db 1561 CGTATATCAAAAGTCTCTGATATGATGATGATGATGATGATGATGATGATGATGAT 1620
Qy 1621 TGGCATATGTAACATTTTCTTGAACATATGTTTCACTTAATCACTAACAAATCTGGA 1680
Db 1621 TGGCATATGTAACATTTTCTTGAACATATGTTTCACTTAATCACTAACAAATCTGGA 1680
Qy 1681 AAGACCTGTCTTCTGAGACAGACAGAGTGTATGAGAGAGAGAGAGAGAGAGAGAGAG 1740
Db 1681 AAGACCTGTCTTCTGAGACAGACAGAGTGTATGAGAGAGAGAGAGAGAGAGAGAGAG 1740
Qy 1741 CAG 1800
Db 1741 CAG 1800
Qy 1801 ATGAG 1860
Db 1801 ATGAG 1860
Qy 1861 CCTCAGTCCCAAAATCTGAG 1920
Db 1861 CCTCAGTCCCAAAATCTGAG 1920
Qy 1921 TGGCCAG 1980
Db 1921 TGGCCAG 1980
Qy 1981 TGAATCTGTGTGAG 2040
Db 1981 TGAATCTGTGTGAG 2040
Qy 2041 ATTCAAGCAAGAGATCTCAAGTGAATATTAACCACTTCTGATATTAATTTTGGCT 2100
Db 2041 ATTCAAGCAAGAGATCTCAAGTGAATATTAACCACTTCTGATATTAATTTTGGCT 2100
Qy 2101 ATTATATTTCTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTT 2160
Db 2101 ATTATATTTCTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTT 2160
Qy 2161 TCTGAAGTGAATCAATATTAAGCAATTCAGTAATTAATTAATTAATTAATTAATTAAT 2220
Db 2161 TCTGAAGTGAATCAATATTAAGCAATTCAGTAATTAATTAATTAATTAATTAATTAAT 2220
Qy 2221 AATATGTTTCTGAG 2280
Db 2221 AATATGTTTCTGAG 2280
Qy 2281 AATGCAATGTTTGTGATATTTTCACTTAACCAATTAATTTTGTGTTTAAATTAAT 2340
Db 2281 AATGCAATGTTTGTGATATTTTCACTTAACCAATTAATTTTGTGTTTAAATTAAT 2340
Qy 2341 CAAAGGAGATCTGAG 2400
Db 2341 CAAAGGAGATCTGAG 2400
Qy 2401 TACATATGAATCGCTTTGACATATCTTTTAAACCAAAAGAGAGAGAGAGAGAGAGAG 2460
Db 2401 TACATATGAATCGCTTTGACATATCTTTTAAACCAAAAGAGAGAGAGAGAGAGAGAGAG 2460
Qy 2461 ATTATAGAGCTTGTGATCTTTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2520
Db 2461 ATTATAGAGCTTGTGATCTTTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2520
Qy 2521 AAGCTTGCATGCTGAG 2571
Db 2521 AAGCTTGCATGCTGAG 2571

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RESULT 2
US-10-277-032-1
; Sequence 1, Application US/10277032
; Patent No. 6664087
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: CL001305 DIV
; CURRENT APPLICATION NUMBER: US/10/277,032
; PRIOR FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/984,880
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2571
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-277-032-1

Query Match      100.0%; Score 2571; DB 4; Length 2571;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2571; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CGAGGCGGAGGCGGCGTCTGAGGCGCCCATGAGCTTTCGCCGCGGCTCTGCGCGG 60
DB      1 CGAGGCGGAGGCGGCGTCTGAGGCGCCCATGAGCTTTCGCCGCGGCTCTGCGCGG 60
QY      61 GCGACTGTCCGGGCGCGGTGCTCGGCGCGCGCGGCGGTCTGCGCGGCGCAATGCGTCCGC 120
DB      61 GCGACTGTCCGGGCGCGGTGCTCGGCGCGCGCGGCGGTCTGCGCGGCGCAATGCGTCCGC 120
QY      121 GTGCGCGTTCGTCTGAGAGCTTCCGCACTGCACTCTGCTCACTTCCGCTCAAGGCGCGCA 180
DB      121 GTGCGCGTTCGTCTGAGAGCTTCCGCACTGCACTCTGCTCACTTCCGCTCAAGGCGCGCA 180
QY      181 CGGCGCGGCGAGCGAGCGAGCGCCCGCGAAGCGCGCGTGTGTGGGCGCGCGCGA 240
DB      181 CGGCGCGGCGAGCGAGCGAGCGCCCGCGAAGCGCGCGTGTGTGGGCGCGCGCGA 240
QY      241 GCGCGAGTACTCGCTGTGCGTGTGCGCGCGCGCGAGCGCGCGCGCGCGCGCGCGCG 300
DB      241 GCGCGAGTACTCGCTGTGCGTGTGCGCGCGCGCGAGCGCGCGCGCGCGCGCGCGCG 300
QY      301 GCGCGCGGCGGCTGACAGCGCGCGTGTGCACTGAGCGCGCGCGCGCGCGCGCG 360
DB      301 GCGCGCGGCGGCTGACAGCGCGCGTGTGCACTGAGCGCGCGCGCGCGCGCGCG 360
QY      361 CGAGCTGTCTAGGCTGTCTGTCTAATGCGCGCGCGCGCGAGCGCGCGCGCGCAAGG 420
DB      361 CGAGCTGTCTAGGCTGTCTGTCTAATGCGCGCGCGCGCGAGCGCGCGCGCGCAAGG 420
QY      421 CTTCCTGTGCTGCGGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 480
DB      421 CTTCCTGTGCTGCGGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 480
QY      481 GCGCGCGCTGCGAGGAGCGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 540
DB      481 GCGCGCGCTGCGAGGAGCGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 540
QY      541 CGAGCTGTGCGAGGCGCTGTGGAGGTGCAAGAGCGAGCGCGCGCGTGTGAGGTGAG 600
DB      541 CGAGCTGTGCGAGGCGCTGTGGAGGTGCAAGAGCGAGCGCGCGCGTGTGAGGTGAG 600
QY      601 ACAGGTGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 660
DB      601 ACAGGTGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 660
QY      661 CGTGTCTTCCGCGAGCGGAGAGCGCGCGCGCGCGCGCGTGTGTGAGAGGTGACTCTTAT 720
DB      661 CGTGTCTTCCGCGAGCGGAGAGCGCGCGCGCGCGCGCGTGTGTGAGAGGTGACTCTTAT 720
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DB      661 CGTGTCTTCCGCGAGCGGAGAGCGCGCGCGCGCGCGTGTGTGAGAGGTGACTCTTAT 720
QY      721 TCCTGAAGCCCGGCGAGTGTCTGAGTGTGCACTGTCGCGCAAGTCCAGAAAGG 780
DB      721 TCCTGAAGCCCGGCGAGTGTCTGAGTGTGCACTGTCGCGCAAGTCCAGAAAGG 780
QY      781 AAGGTTCAGGTTGTGGCATGGAAGAGCTGATGCGAGGCGGAAACACGCGTGACCA 840
DB      781 AAGGTTCAGGTTGTGGCATGGAAGAGCTGATGCGAGGCGGAAACACGCGTGACCA 840
QY      841 GTGAGTGGCAGATTCACTTAAGGCTGTCTTAAAGTCAACACCGCTTGTGATGGCCA 900
DB      841 GTGAGTGGCAGATTCACTTAAGGCTGTCTTAAAGTCAACACCGCTTGTGATGGCCA 900
QY      901 GTGAGGAGAGATTGTTGATGATGAACCAACTATCATTAGAAGCTTTTACTTTGGG 960
DB      901 GTGAGGAGAGATTGTTGATGATGAACCAACTATCATTAGAAGCTTTTACTTTGGG 960
QY      961 CAATTATATTGTGGCGCCGAAATAGCTAAAGAAATGCGCAATCTCTGTGATTGTAGA 1020
DB      961 CAATTATATTGTGGCGCCGAAATAGCTAAAGAAATGCGCAATCTCTGTGATTGTAGA 1020
QY      1021 CAGGTACTGCGACAGACCGGCGCACTATGCGCATGCGCACTGAGTGAAGGCGGTCTCCA 1080
DB      1021 CAGGTACTGCGACAGACCGGCGCACTATGCGCATGCGCACTGAGTGAAGGCGGTCTCCA 1080
QY      1081 GCACTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1140
DB      1081 GCACTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1140
QY      1141 CCTTATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1200
DB      1141 CCTTATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1200
QY      1201 CATGAGAGAGACCGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1260
DB      1201 CATGAGAGAGACCGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1260
QY      1261 AGAATGTCTTACCAAGCGAGTGAAGATCTGCTGCTGCTGCTGCTGCTGCTGCTG 1320
DB      1261 AGAATGTCTTACCAAGCGAGTGAAGATCTGCTGCTGCTGCTGCTGCTGCTGCTG 1320
QY      1321 CAGAGAAAGGTCTGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1380
DB      1321 CAGAGAAAGGTCTGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1380
QY      1381 GTTACTCTGCGCGAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1440
DB      1381 GTTACTCTGCGCGAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1440
QY      1441 ACCATTGTTATGCAAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
DB      1441 ACCATTGTTATGCAAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
QY      1501 CTGGAAGACAGAGATTTAATTTAATTTAATTTAATTTAATTTAATTTAATTTAATTT 1560
DB      1501 CTGGAAGACAGAGATTTAATTTAATTTAATTTAATTTAATTTAATTTAATTTAATTT 1560
QY      1561 CGTCAATCAAAAGTCCCTCTCATCATGTTTCAAGTGAAGGCGAGGCGAGTGTCTTCC 1620
DB      1561 CGTCAATCAAAAGTCCCTCTCATCATGTTTCAAGTGAAGGCGAGGCGAGTGTCTTCC 1620
QY      1621 TGGCATAGTAACATTTTCTTGAACATATGTTTCACTTAATCACTAATATCTGGA 1680
DB      1621 TGGCATAGTAACATTTTCTTGAACATATGTTTCACTTAATCACTAATATCTGGA 1680
QY      1681 AGACCTGTCTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1740
DB      1681 AGACCTGTCTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1740
QY      1741 CAGCAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1800
DB      1741 CAGCAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1800
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QY 1801 ATGCCCAATTGGCTTCTTCCACATCTGTTGCACTGTCATGATGAGGCTGCTGCATCT 1860
Db 1801 ATGCCCAATTGGCTTCTTCCACATCTGTTGCACTGTCATGATGAGGCTGCTGCATCT 1860
QY 1861 CCTCAAGTCCCAATTTCTAGTACCAAGTGTCTGAGAGAGGCTGTCTAGTGTCCAGG 1920
Db 1861 CCTCAAGTCCCAATTTCTAGTACCAAGTGTCTGAGAGAGGCTGTCTAGTGTCCAGG 1920
QY 1921 TGCCCAAGGACATCTCTGCAAGACCTTTTGGGTAAAGAACCTTACAAAGAGGCAT 1980
Db 1921 TGCCCAAGGACATCTCTGCAAGACCTTTTGGGTAAAGAACCTTACAAAGAGGCAT 1980
QY 1981 TGATCTGTGTGAGAGCTCAGAGCCCTTTGATGAGCTCTGATGTCATTCATTAAGAC 2040
Db 1981 TGATCTGTGTGAGAGCTCAGAGCCCTTTGATGAGCTCTGATGTCATTCATTAAGAC 2040
QY 2041 ATTBAAGCCAAAGATGCTCCAACTGCAAAATATACCAACCTTCTGTAATTAATTTGGCT 2100
Db 2041 ATTBAAGCCAAAGATGCTCCAACTGCAAAATATACCAACCTTCTGTAATTAATTTGGCT 2100
QY 2101 ATTATATTTCTTTCTTTCTTTTCTTAAAGAAATGGCTGTGAATAGAACATTTTCCA 2160
Db 2101 ATTATATTTCTTTCTTTCTTTTCTTAAAGAAATGGCTGTGAATAGAACATTTTCCA 2160
QY 2161 TCTGAAGTGAATGATATCATTTATAGCCAAATCCAGTAATTAATTAATTAATTAAT 2220
Db 2161 TCTGAAGTGAATGATATCATTTATAGCCAAATCCAGTAATTAATTAATTAATTAAT 2220
QY 2221 AATATGTTTCTCTAGCATAGAGAGCTATGATTCATTAATTAATTAATTAATTAAT 2280
Db 2221 AATATGTTTCTCTAGCATAGAGAGCTATGATTCATTAATTAATTAATTAATTAAT 2280
QY 2281 AATGCAATGTTTGTGTGATTTTCTTACACAACTTAATTTGCTTTTAAATAGTT 2340
Db 2281 AATGCAATGTTTGTGTGATTTTCTTACACAACTTAATTTGCTTTTAAATAGTT 2340
QY 2341 CAAAGTGAATCTTGAAGTGGGATTTCTTGTAAATTAATTTGCACTTGAATGCTCATGAT 2400
Db 2341 CAAAGTGAATCTTGAAGTGGGATTTCTTGTAAATTAATTTGCACTTGAATGCTCATGAT 2400
QY 2401 TACATATGAATATGCTTTTACATATCTTTAGACAGAAAAAGATGATGAGAGGAGAA 2460
Db 2401 TACATATGAATATGCTTTTACATATCTTTAGACAGAAAAAGATGATGAGAGGAGAA 2460
QY 2461 ATTATAGAGCTTGTGTGACTTTAGAGAGTGTCTCTTATACATATCTGAAGCCCTG 2520
Db 2461 ATTATAGAGCTTGTGTGACTTTAGAGAGTGTCTCTTATACATATCTGAAGCCCTG 2520
QY 2521 AAGCCTTGATGCTCTGCAAGCGTCGCACTAAAGAGGAGGCTTTTGACACC 2571
Db 2521 AAGCCTTGATGCTCTGCAAGCGTCGCACTAAAGAGGAGGCTTTTGACACC 2571

RESULT 3
US-09-984-880-3
; Sequence 3, Application US/09984880
; Patent No. 6489153
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: CL001305
; CURRENT APPLICATION NUMBER: US/09/984,880
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 20966
; TYPE: DNA
; ORGANISM: Homosapien
US-09-984-880-3
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Query Match 44.0%; Score 1130.4; DB 4; Length 20966;
Best Local Similarity 98.1%; Pred. No. 6,3e-262;
Matches 1228; Conservative 0; Mismatches 16; Indels 8; Gaps 8;

QY 1243 TGTGTTTCTTCAAAAGTGAATGCTCTTACAGAGGATGAGAAATCTGAGTCATGT 1302
Db 17724 TTTGCTGTGCTCCAGAGTGAATGCTCTTACAGAGGATGAGAAATCTGAGTCATGT 17783
QY 1303 GGTGATGACAGCCCTCCAGAGAAAGGCTGTGAGACAGATTAATTAAGCTTAACAA 1362
Db 17784 GGTGATGACAGCCCTCCAGAGAAAGGCTGTGAGACAGATTAATTAAGCTTAACAA 17843
QY 1363 TAGTTTATGTAACCGTATGTAATCTGTGACAGGTGCCAGTCTAATAGATTAGATTG 1422
Db 17844 TAGTTTATGTAACCGTATGTAATCTGTGACAGGTGCCAGTCTAATAGATTAGATTG 17903
QY 1423 TTTGAACATCTACATCCACCATTTGTTATGAGGTTCCTCAATTTCTGATCAAGC 1482
Db 17904 TTTGAACATCTACATCCACCATTTGTTATGAGGTTCCTCAATTTCTGATCAAGC 17963
QY 1483 ATGTTGTGTGCAAAAAGTGAAGACAGAGCATTTAATTTTACTTGACCATGTAACC 1542
Db 17964 ATGTTGTGTGCAAAAAGTGAAGACAGAGCATTTAATTTTACTTGACCATGTAACC 18023
QY 1543 TC-TTCTGACTGATGAGACCCGCTCATCACAAAGTCCCTCTCATCATGTTCCAGTGAAG 1601
Db 18024 TCTTCTCATGATGAGACCCGCTCATCACAAAGTCCCTCTCATCATGTTCCAGTGAAG 18083
QY 1602 CCAGGATTTGCTTCTTCTGCAATGAAACATTTTCTTGAACATATGTTTCACTTAA 1661
Db 18084 CCAGGATTTGCTTCTTCTGCAATGAAACATTTTCTTGAACATATGTTTCACTTAA 18143
QY 1662 TCATACCAATATCTGAAAGACCTGTCTTACTGACAGACAGGATGACAGAAACAG 1721
Db 18144 TCATACCAATATCTGAAAGACCTGTCTTACTGACAGACAGGATGACAGAAACAG 18203
QY 1722 CAGACAAATTTTCAATCATGACAGAGAGACCCGAGAGCTCTGCTTCTCTACATGGC 1781
Db 18204 CAGACAAATTTTCAATCATGACAGAGAGACCCGAGAGCTCTGCTTCTCTACATGGC 18263
QY 1782 ATGCTGATGAGATGTCACATGACCATGATGAGCTTCTTCCACATCTGATGCACTGCA 1841
Db 18264 ATGCTGATGAGATGTCACATGACCATGATGAGCTTCTTCCACATCTGATGCACTGCA 18523
QY 1842 TGAATGGCTGCTGCAATCTCCCTCAATTCCTTAATGACCAAGTGTCTGCAAG 1901
Db 18324 TGAATGGCTGCTGCAATCTCCCTCAATTCCTTAATGACCAAGTGTCTGCAAG 18382
QY 1902 GCTGTATATGTCCTGAGTCCCAAGGAGACATCCCTGAGAGACATTTTGGTAAAGA 1961
Db 18383 GCTGTATATGTCCTGAGTCCCAAGGAGACATCCCTGAGAGACATTTTGGTAAAGA 18441
QY 1962 ACATTTAACAAGGATGATCTTGTGTCTGAGGCTCAGAGCCCTTTGATAGGCTTC 2021
Db 18442 ACATTTAACAAGGATGATCTTGTGTCTGAGGCTCAGAGCCCTTTGATAGGCTTC 18501
QY 2022 TGATGATTCATTAAGACATTTGAGCAAGATGCTTCCAACTGCAATTAATCAACCTTC 2081
Db 18502 TGA-GTATATTAATTAAGACATTTGAGCAAGATGCTTCCAACTGCAATTAATCAACCTTC 18560
QY 2082 TCTGAATTAATTTTGTCTTATTAATTTCTTTCTTTTCTTAAAGATGGCTGTA 2141
Db 18561 TCTGAATTAATTTTGTCTTATTAATTTCTTTCTTTTCTTAAAGATGGCTGTA 18619
QY 2142 ATAGATGACATTTTTCATCTGAAGTGAATGATTAATTAAGCAATCCAGTAATTTA 2201
Db 18620 ATAGATGACATTTTTCAT-TEAATGAGATGATTTAATTAAGCAATCCAGTAATTTA 18678
QY 2202 TTATATTAATCTATCATTAATTAATTTTCTGACGATAGAGATGATTAATTAAT 2261
Db 18679 TTATATTAATCTATCATTAATTAATTTTCTGACGATAGAGATGATTAATTAAT 18738
```

2262 AAGTGAAGTCAAAAGCTAAAGCAATGTTGTTGTTGTTTTCATTACACAAACTTAAT 2321
18739 AAGTGAAGTCAAAAGCTAAAGCAATGTTGTTGTTGTTTTCATTACACAAACTTAAT 18798
2322 TTGCTCTGTTAAATAAATTCAAGTGAATCTTGGAGTGGGATTTCTTGTAAATTAATCTTG 2381
18799 TTGCTCTGTTAAATAAATTCAAGTGAATCTTGGAGTGGGATTTCTTGTAAATTAATCTTG 18857
2382 CACTGAATGTCATGATTAATTAATGAATGCTGCTTGAATCTTGAATCTTGAATCTTGA 2441
18858 CACTGAATGTCATGATTAATTAATGAATGCTGCTTGAATCTTGAATCTTGAATCTTGA 18917
2442 GTAGCTGATGAGGGGGAATTAATTAATGATGCTGCTGCTTGAATCTTGAATCTTGA 2493
18918 GTAGCTGATGAGGGGGAATTAATTAATGATGCTGCTGCTTGAATCTTGAATCTTGA 18968

RESULT 4
US-10-277-032-3
; Sequence 3, Application US/10277032
; Patent No. 6664087
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL001305 DIV
; CURRENT APPLICATION NUMBER: US/10/277,032
; PRIOR FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/984,880
; NUMBER OF SEQ. ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 20966
; TYPE: DNA
; ORGANISM: Homosapien
US-10-277-032-3

Query Match 44.0%; Score 1130.4; DB 4; Length 20966;
Best Local Similarity 98.1%; Pred. No. 6.3e-262;
Matches 1228; Conservative 0; Mismatches 16; Indels 8; Gaps 8;

QY 1243 TGTGTTTCTGCAAAAGTGAATGTTCTTACACGCGGATGAGAAATCTGCTGCTCATGT 1302
DB 17724 TTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 17783
QY 1303 GGTGATGCGAGCCCTCCAGAGAAAGTCTGCGAGACGATTAAGCTTAATCGAGAA 1362
DB 17784 GGTGATGCGAGCCCTCCAGAGAAAGTCTGCGAGACGATTAAGCTTAATCGAGAA 17843
QY 1363 TAGTTTAAGTGAACCGTAGTACTCTGCGAGTGCACGCTTAAGTGAATGATGTTG 1422
DB 17844 TAGTTTAAGTGAACCGTAGTACTCTGCGAGTGCACGCTTAAGTGAATGATGTTG 17903
QY 1423 TTTGAAACATCTACATCCACATTTGTTATGCAAGTGTCCCAATTTCTGTTTACAAAG 1482
DB 17904 TTTGAAACATCTACATCCACATTTGTTATGCAAGTGTCCCAATTTCTGTTTACAAAG 17963
QY 1483 ATGTTGTTGCGAGAAACTGAGACAGGACCTTAATTTTCTCAGCATGCTGATGCC 1542
DB 17964 ATGTTGTTGCGAGAAACTGAGACAGGACCTTAATTTTCTCAGCATGCTGATGCC 18023
QY 1543 TC-TTCTGATGATGAGACCGGTATCAAAAGTCTCTCATCATGTTTCACTGAGAG 1601
DB 18024 TC-TTCTGATGATGAGACCGGTATCAAAAGTCTCTCATCATGTTTCACTGAGAG 18083
QY 1602 CCGAGCATGCTTTCTTCTCGGATAGTAAATTTTCTTGAACATATGTTTCACTTAA 1661
DB 18084 CCGAGCATGCTTTCTTCTCGGATAGTAAATTTTCTTGAACATATGTTTCACTTAA 18143
QY 1662 TCACATCAAAATATCTGAAAGACTGCTTACTCAGACAGCAGCAGGTGTAAGAGAG 1721

DB 18144 TCACATCAAAATATCTGAAAGACTGCTTACTCAGACAGCAGCAGGTGTAAGAGAG 18203
QY 1722 CAGACAAATCTTCCAGATCAGACAGGAGAGCCCGAGCTGCTGCTTCTCTACTGAGC 1781
DB 18204 CAGACAAATCTTCCAGATCAGACAGGAGAGCCCGAGCTGCTGCTTCTCTACTGAGC 18263
QY 1782 ATGCTGATGATGCGACATGCGCCCAATTTGCTTCTTCCATCATGTTGTCAGTCTGTA 1841
DB 18264 ATGCTGATGATGCGACATGCGCCCAATTTGCTTCTTCCATCATGTTGTCAGTCTGTA 18323
QY 1842 TCATGGCTGCTGCTGATCTCTCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1901
DB 18324 TCATGGCTGCTGCTGATCTCTCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 18382
QY 1902 GCTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1961
DB 18383 GCTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 18441
QY 1962 ACACCTTACAAAGGACATGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2021
DB 18442 ACACCTTACAAAGGACATGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 18501
QY 2022 TCATGCTATCTTCAAAAGACATTCAGCCAGATGCTGCTGCTGCTGCTGCTGCTGCTG 2081
DB 18502 TCATGCTATCTTCAAAAGACATTCAGCCAGATGCTGCTGCTGCTGCTGCTGCTGCTG 18560
QY 2082 TCTGAATTAATTTGCTTATTAATTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 2141
DB 18561 TCTGAATTAATTTGCTTATTAATTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 18619
QY 2142 ATGAAATGCAATTTTCCATGCTGAACTGATGATGATGATGATGATGATGATGATGATG 2201
DB 18620 ATGAAATGCAATTTTCCATGCTGAACTGATGATGATGATGATGATGATGATGATGATG 18678
QY 2202 TTTAATTAATCTAT 2261
DB 18679 TTTAATTAATCTAT 18738
QY 2262 AAGTGAAGTCAAAAGCTAAAGCAATGTTGTTGTTGTTTTCATTACACAACTTAAT 2321
DB 18739 AAGTGAAGTCAAAAGCTAAAGCAATGTTGTTGTTGTTTTCATTACACAACTTAAT 18798
QY 2322 TTGCTCTGTTAAATAAATTCAAGTGAATCTTGGAGTGGGATTTCTTGTAAATTAATCTTG 2381
DB 18799 TTGCTCTGTTAAATAAATTCAAGTGAATCTTGGAGTGGGATTTCTTGTAAATTAATCTTG 18857
QY 2382 CACTGAATGTCATGATTAATTAATGAATGCTGCTTGAATCTTGAATCTTGAATCTTGA 2441
DB 18858 CACTGAATGTCATGATTAATTAATGAATGCTGCTTGAATCTTGAATCTTGAATCTTGA 18917
QY 2442 GTAGCTGATGAGGGGGAATTAATTAATGATGCTGCTGCTTGAATCTTGAATCTTGA 2493
DB 18918 GTAGCTGATGAGGGGGAATTAATTAATGATGCTGCTGCTTGAATCTTGAATCTTGA 18968

RESULT 5
US-09-266-965-51
; Sequence 51, Application US/09266965
; Patent No. 6495348
; GENERAL INFORMATION:
; APPLICANT: Sherman, D
; APPLICANT: Mao, Y
; APPLICANT: Varoglu, M
; APPLICANT: He, M
; APPLICANT: Sheldon, P
; TITLE OF INVENTION: MitoMycin biosynthetic gene cluster
; FILE REFERENCE: 600,456US1
; CURRENT FILING DATE: 1999-03-12
; EARLIER FILING DATE: 1996-08-19
; EARLIER APPLICATION NUMBER: US 08/624,447
; EARLIER APPLICATION NUMBER: PCT/US94/11279
; EARLIER FILING DATE: 1994-10-06


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QY 215 CTGGCGGCGCTGTGGGAGCCCGGAGCGAGCTACTGCTGTGGTGGCCCGGAGCCCG 274
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1025 CAGGCT-----CAGGAGCGGCGCGGCGCGGCGCGCGCGCGCGCGCGCGCG 980
QY 275 GAGCGCGGCTGCGGAGCCCGGAGTCCGAGCGCGCGCGCTGACACGAGCGCTGTGACAG 334
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 979 TCGGCGGCGGCTGTG-GCTGCTGCGGCGCGGCTGAGCGGCGGCTGCTGCTGCTG 921
QY 335 CTGCGCGGCGGCGCTTTCACGCGGTGACAGTGTCTAGAGCTGTGCTACTGCGCGG 394
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 920 TGGCGGCGCGGCGGCTGTGAGCGCGCGGCAAGCGGCACTCCCGGCGCGGCGAG 861
QY 395 GGCAGGCGCGGCGGCGGACAGCAAGGCTTCTGCTGCGGAGCCCGCTGAGTACCCCTGAC 454
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 860 GGGGCGGCGGAGCGGCGCGGCGCGGCGCGGCGCGGCGCGCGCGCGCGGAGCGGCGG 801
QY 455 ACCCGGCAAGCGCTGCTGAGCTGTGAGCGCTTGCAGAGGACACAGCGCGCACTTG 514
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 800 CGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 741
QY 515 GGGAGTTCAGAGCGGACCGCGCGGCGGCAAGTGTGCAAGCGCTTGGAGGTGCAAGAC 574
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 740 GCGGCGGCGAGGAGGCGGCTGTGCGCGG-CAGCGGCGGCGGCGGCGGCGGCGGCGG 682
QY 575 GGCAGGCGGCTGAGGTGGGCTGCGGCAAGTGTGTCGCG 614
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 681 CGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 642
```

```
RESULT 8
US-09-103-840A-1/c
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
US-09-103-840A-1
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Query Match 2.7%; Score 70.4; DB 3; Length 4411529;
Best Local Similarity 47.7%; Pred. No. 6.5e-05;
Matches 267; Conservative 0; Mismatches 291; Indels 2; Gaps 2;
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QY 91 CGGAGCTGTGCGCTGGGCGCAATGCTCCGCGTGCCTTGTCTGAGACTTCCGCACTG 150
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 3944636 CGGCGCCACCGGTCGCGCGTTCATGCTCCGCGCGGCGTTCGCGCGTTCGCG 3944577
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 151 CACCTGTGCTACTTGGCCCTTAGAGCGGCGGAGCGCCCGCGGAGAGCGCCCGGACCC 210
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 3944576 CATTCGCGGCGGCGGCGGCTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 3944517
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 211 CGGCTGTGCGGCGCTGTGGGCGCGCGGAGCGCACTACTGCTGTGCGTGCCTGCGTAC 270
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 3944516 GGGGCGTGTGCGGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 3944457
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 271 CCCGAGCGCGGCTGTGGGAGCGCGGAGTCCGAGCGGCGGCGGCGGCGGCGGCGGCGG 330
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 3944456 CCGCGCGGCTGTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 3944398
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 331 CCAAGCTGGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 390
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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```
DB 3944397 CCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 3944338
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 391 GGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 450
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 3944337 TCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 3944279
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 451 TGAACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 510
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 3944278 GCGGTTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 3944219
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 511 CTTGGCGGAGTTCAGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 570
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 3944218 GATGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 3944159
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 571 AGACGCGAGCGGCGGCTGTGAGTGGGCTGTGCGCAAGTGTGTCGCTCCGAGACCGCGCT 630
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 3944158 AGCGGTCAAGCAACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 3944099
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 631 GCACTCGGCTGTGCGGCAACT 650
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 3944098 GCCACCTGTCAACCGCGCGCT 3944079
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

```
RESULT 9
US-09-103-840A-2/c
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, c, t, c or g
US-09-103-840A-2
```

```
Query Match 2.7%; Score 68.8; DB 3; Length 4403765;
Best Local Similarity 47.5%; Pred. No. 0.00016;
Matches 266; Conservative 0; Mismatches 292; Indels 2; Gaps 2;
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QY 91 CGGAGCTGTGCGCTGGGCGCAATGCTCCGCGTGCCTTGTCTGAGACTTCCGCACTG 150
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 3938183 CGGCGCCACCGGTCGCGCGTTCATGCTCCGCGCGGCGGCGGCGGCGGCGGCGG 3938124
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 151 CACCTGTGCTACTTGGCCCTTAGAGCGGCGGAGCGCCCGGCGGAGAGCGCCCGGACCC 210
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 3938123 CATTCGCGGCGGCGGCGGCTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 3938064
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 211 CGGCTGTGCGGCGCTGTGGGCGCGCGGAGCGCACTACTGCTGTGCGTGCCTGCGTAC 270
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 3938063 GGGGCGTGTGCGGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 3938004
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 271 CCCGAGCGCGGCTGTGGGAGCGCGGAGTCCGAGCGGCGGCGGCGGCGGCGGCGGCGG 330
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 3938003 CCGCGCGGCTGTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 3937945
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 331 CCAAGCTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 390
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 3937944 CCGGCGGCGGCGGCACTTCCGCGCGCTGTGCGGCGGCGGCGGCGGCGGCGGCGGCGG 3937885
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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;; PRIOR FILING DATE: 2000-07-10
;; NUMBER OF SEQ ID NOS: 16825
;; SEQ ID NO 8819
;; LENGTH: 6645
;; TYPE: DNA
;; ORGANISM: Myxococcus xanthus
US-09-902-540-8819

Query Match 2.6%; Score 65.8; DB 4; Length 6645;
Best Local Similarity 46.8%; Pred. No. 2.6e-05;
Matches 285; Conservative 0; Mismatches 312; Indels 12; Gaps 2;

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QY 5 GCCAGAGGCGGCGTCTGCTAGAGCGCCATGAGCTTTGCGCCCGGCTCTCGCGGCGCA 64
Db 3471 GTGGAAGGCTCCCGCGGCGAGAGCGCTTCCCGCGTCCAGAGTGAAGCGCGCGCTC 3412
QY 65 CTGTGCGGCGCGCTGCTGCGGCGCGCGGAGTCTGCGCTGCGGCGCATGAGCTCCCGCTG 124
Db 3411 GCGGAGAGCGCGCGGCGCTCGAGCTGAGAGGCGCGCGCGCGCTGCGGAGAGAGTTC 3352
QY 125 CGCTTCGCTGAGAGCTTCCGAGCTGACCTGAGCTTACCTTCCGCTTGAAGCGCCAGCGC 184
Db 3351 CGCGAGCGCGGCGAGCTGACCGCGCGCGCTGACAGAGCGCGCTGAGAGGCTTCCGCGCT 3292
QY 185 CCGGCGCA-----CGAGAGCGCCCGCGAGCGCCCGCTGAGCGGCGCTGTTGAGGCGCCCG 238
Db 3291 CGCGGCGCTGAGCTGAGAGGCGCTGAGTCTGAGAGAGCGCGCGCTGCGGAGAGCGC 3232
QY 239 GAGGCGAGTACTGCTGTGCTGCGCGCTGAGACCCCGGAGCGCGCGCGCGCGCGCTC 298
Db 3231 CGCGCGAGAGAGAGCGGCGCGCGAGAGAGTACTGCTGCGCGCGCGCTGCGGCGCTTCTG 3172
QY 299 CGGCGCGCGCGGCTGAGAGCGCGCTGAGACAGAGTGTGCGCGCGCGCGCGCGCTTCCAGCG 358
Db 3171 CTGCGCGCTTGGAGAGTACAGCTGAGAGCGCGCTGAGTCTTCCGCTGATCCAGAGAA 3112
QY 359 TGCAGCTGCTGAGAGCTGCTGTCTGCTGCTGCGCGCGCGCGCGCGCGCGCGAGCA 418
Db 3111 GGGGAGGTGCGGAG-----GGAAGAGCGGCGCTGCGGAGAGAGTCCGCTCCAGAGAG 3058
QY 419 GGGTCTGCTGTGCGGAGAGCGCGCTGAGAGCTTGAACCGCGAGAGCGCTGCTGAGCTG 478
Db 3057 CGCGTGAAGTCTCGCGCGCGCTGCGGCGCGCTTCACTTGTGAGAGAGTCCGCGCGCTG 2998
QY 479 CTGCGCGCTGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 538
Db 2997 CGCGGTGAGTTCAGAGGTGCGCGGCGCGCGAGAGAGAGAGAGAGAGAGAGAGAG 2938
QY 539 GCGCAGCTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 598
Db 2937 GGACTCCGAGGCGCGCTGCGCGGTGCGGTACAGAGAGAGAGAGAGAGAGAGAGAG 2878
QY 599 GCACAGGTC 607
Db 2877 GCGAGCGGC 2869
```

RESULT 14
US-09-902-540-938/C
; Sequence 938, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US/09/902,540
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825

;; SEQ ID NO 938
;; LENGTH: 10210
;; TYPE: DNA
;; ORGANISM: Myxococcus xanthus
US-09-902-540-938

Query Match 2.6%; Score 65.8; DB 4; Length 10210;
Best Local Similarity 46.8%; Pred. No. 3.3e-05;
Matches 285; Conservative 0; Mismatches 312; Indels 12; Gaps 2;

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QY 5 GCCAGAGGCGGCGTCTGCTAGAGCGCCATGAGCTTTGCGCCCGGCTCTCGCGGCGCA 64
Db 3846 GTGGAAGGCTCCCGCGGCGAGAGCGCTTCCCGCGTCCAGAGTGAAGCGCGCGCTC 3787
QY 65 CTGTGCGGCGCGCTGCTGCGGCGCGCGGAGTCTGCGCTGCGGCGCATGAGCTCCCGCTG 124
Db 3786 GCGGAGAGCGGCGAGAGGCTTCCGAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3727
QY 125 CGCTTCGCTGAGAGCTTCCGAGCTGACCTGAGCTTACCTTCCGCTTGAAGCGCGAGCGC 184
Db 3726 CGCGAGCGCGCGAGCTGACCGCGCGCGCTGACAGAGCGCGCTGAGAGGCTTCCGCGCT 3667
QY 185 CCGGCGCA-----CGAGAGCGCCCGCGAGAGCGCCCGCTGAGAGAGAGAGAGAGAGAG 238
Db 3666 CGCGGAGCTGAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3607
QY 239 GAGCGAGCTACTGCTGTGCTGCGCGCTGAGACCCCGGAGCGCGCGCTGCGGAGAGAGT 298
Db 3606 CGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3547
QY 299 CGGCGCGCGCGGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 358
Db 3546 CTGCGCGCTTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3487
QY 359 TGCAGCTGCTGAGAGCTGCTGTCTGCTGCTGCGCGCGCGCGCGCGCGCGCGAGCA 418
Db 3486 GCGGAGAGTCCGAG-----GGAAGAGCGGCGCTGCGGAGAGAGAGTCCGCTCCAGAG 3433
QY 419 GGGTCTGCTGTGCGGAGAGCGCGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 478
Db 3432 CGCGTGAAGTCTCGCGCGCGCTGCGGCGCGCTTCACTTGTGAGAGAGTCCGCGCGCTG 3373
QY 479 CTGCGCGCTGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 538
Db 3372 CGCGGTGAGTTCAGAGGTGCGCGGCGCGAGAGAGAGAGAGAGAGAGAGAGAGAG 3313
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Db 3312 GGACTCCGAGGCGCGCTGCGCGGTGCGGTACAGAGAGAGAGAGAGAGAGAGAGAG 3253
QY 599 GCACAGGTC 607
Db 3252 GCGAGCGGC 3244
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RESULT 15
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; Sequence 193, Application US/10237551
; Patent No. 6821519
; GENERAL INFORMATION:
; APPLICANT: Day, Craig H.
; APPLICANT: Hoeken, Nancy A.
; APPLICANT: Parsons, Joseph M.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
; FILE REFERENCE: 210121.538C3
; CURRENT FILING DATE: 2002-09-06
; CURRENT APPLICATION NUMBER: US/10/237,551
; NUMBER OF SEQ ID NOS: 254
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 193
; LENGTH: 3957
; TYPE: DNA

ORGANISM: HSV2
US-10-237-551-193

Query Match	2.6%	Score 65.6	DB 4	Length 3957
Best Local Similarity	45.5%	Pred. No. 2.2e-05		
Matches 314, Conservative	0	Mismatches 369	Indels 7	Gaps 2

Oy	7	GAAGAGGAGCGCTGCCTGAGAGGGCCCAATGAGCTTTGGCCCGAGCGAGCTCTGAGCGGAGCACT	66
Db	1668	CCAAGACGGACCAACAGCGCCCGGAGAGACCCGCGCGCGCCCGCCCTTGGCGTGGAC	1727
Oy	67	GTCCGAGCGCGCTGCTGGAGCGAGCGGAGGTCTGCGCTGAGGAGCAATGACTTCGCGGTGGC	126
Db	1728	GAGCGAGCTGCGCGCGCGCGCAAGAGCGAGCGAGTACCGCGCGGACTACAGAGCGCGGAGGATGCT	1787
Oy	127	CTTGTGCTCTGAGAGTTTCCCGCATGCGACCCCTGAGTTCATTTGGCCCTTAAGCGCGCAAGCGCCC	186
Db	1788	GCGCGCGCTTGGAGGAGCGCTTGAGAGCGCGCGCGCGCTTCGCGCGCGCGCGAGGAGCAAGAGA	1847
Oy	187	CGAGGACGACAGACGCGCCCGACGCCCGCGCTGAGCGCGACTGTTTGGAGGCCCGCGAGAGCGCAG	246
Db	1848	CGAGACGACGACGAGCGCGCGCGCGG-----TGATGGCGGCGGCGCGCGCGAGAGCGGCGG	1902
Oy	247	CTACTCGCTGTGCGAGCGCCCTGAGATCCCGGAGAGCGCGAGCTGCGGAGGCCCGGAGTCCGGGCGGC	306
Db	1903	CGAGGTGACCTGAGAGTGTCTGAGCGCGCTGCGCGCGGAGATCTGAGAGGCGCTGAGAGAGGAGGC	1962
Oy	307	GAGGCTGACACAGAGCGCTGCTGACACAGACTAGCGCGCGGCCCTTTCCAGCGAGTACAAGT	366
Db	1963	TTTGAACGGCGAGACTGAGCGCGCGCTGAGCGCGCGAGGCTGAGCGCGAGGCTCGGCGCGCGCGCCCG	2022
Oy	367	GCTACAGCTGCTCTGCTACTAGCTGCGCGGAGCGC--CAGGCTGAGCGGCGCACAGCAAGCTTC	424
Db	2023	CGCGCGGAGGCGCGGAGGCGCGCGCGCGCGCGCGCGCACAGCGCAGCGCGCGCGCGCTGCGCGCC	2082
Oy	425	CTGCTGAGCGGACCCCGCTGAGTAGCCCTTGACACCGGAGCAAGGCGTGTGAGCTGTGGGCG	484
Db	2083	TGGCTGCGCGAGACTGCGGTTGTGTGCGGACAGCGCGCTGTGTGATGATGCGCTGTGCGCGGAGAC	2142
Oy	485	GCTGAGCCAGAGGACCAACGCGCCGACCTTGGAGAGTTTGAAGGCGGACCGCGCGGCGAG	544
Db	2143	CTGGCGGTGGCGCGGCGAGGAGGCGCGCTGGCGCGCGCTGTGAGCGCTGGTC	2202
Oy	545	CTGTGAGCAGAGCGCTCTGAGAGGTGCAACAGGAGCGGCGGCGTGCAGAGTGGCGTGGGACAG	604
Db	2203	GCGGAGGCGCTTGGGCTCCGAGCGCTGCGCGGAGACCCGCGCGCTGTGATGCTTCCGCGCGCC	2262
Oy	605	GTGTGCGCGTCCCGGAGCGCCCGCTGACCCGAGTGTGACCAATTGGCCCAATTTTCCGTG	664
Db	2263	GCGGCGCGGAGCTGTCTTTCCAGAAACAGAGGCTGCGCGCCCTGTGCTGGCGACACCGTGC	2322
Oy	665	GTTTCTCCCGGAGCGGAGAGCGCGCGGCGC	694
Db	2323	GCGCGGCGGAGCTGCTGCGCGCGCGCGCGC	2352

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Job time : 446 secs

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